

>Inductive and Capacitive Sensors

ODATALOGICTHE VISION IS YOURS



DATALOGIC: SOLUTIONS FOR INDUSTRIAL AUTOMATION

Datalogic Industrial Automation is an industry-leader in products and solutions for material handling, traceability, inspection and detection applications.

With the acquisitions of Accu-Sort and PPT Vision in 2012, the company offers a comprehensive portfolio of products, technologies and solutions delivered by a team of skilled professionals dedicated in providing superior service to customers.

Datalogic is the partner of choice for organizations in the Industrial Automation market.

Manufacturing

- AUTOMOTIVE
- ELECTRONICS
- FOOD & BEVERAGE
- GENERAL MANUFACTURING
- HEALTHCARE PHARMACEUTICAL

Transportation & Logistics

- AIRPORTS
- COURIER, EXPRESS PARCEL (CEP)
- POSTAL
- RETAIL DISTRIBUTION

Product portfolio

Datalogic Industrial Automation has the most comprehensive offering of products and solutions for traceability, inspection and detection applications in factory automation and logistics processes: industrial LASER scanners, cameras and vision systems, sensors, machine safety devices and LASER markers.

Identification

(1972년) (1984년) 전경(1984년) (1984년) (198

Even the most demanding and efficient automation of identification processes can leverage Datalogic Industrial Automation's leadership in the market. We manufacture the world's most comprehensive family of fixed-mount line and omnidirectional scanners.

We also offer the latest CCD vision technology with the world's largest installed base of CCD systems for bar code reading and dimensioning.

All of our AUTO-ID products and solutions leverage the broadest decoding library that has been developed through the years. Datalogic's comprehensive AUTO-ID portfolio is used in a wide range of applications and machines which are behind many of the everyday processes that keeps the global economy running.

Sensors & Safety

Datalogic Industrial Automation offers a best-in-class, comprehensive product portfolio of photoelectric and proximity sensors, rotary encoders, temperature controllers and measurement devices, as well as type 2 and type 4 safety light curtains.

These product lines provide solutions for applications involving color, contrast and luminescence, label detection, dimensional and distance measurement, in addition to machine safeguarding and access control in dangerous areas.

Machine Vision

The Datalogic Industrial Automation machine vision product line encompasses both hardware and software while covering a wide range of performance and price point requirements. The vision portfolio of products and solutions ranges from standalone compact smart cameras to the highest performance embedded processors.

Laser Marking

Laser Marking sources and systems provide value driven marking solutions for automotive, metal tools, medical, electronics and packaging. Datalogic Industrial Automation offers an extensive range of state-of-the-art technology, excellent performance and high reliability marking equipment.



Inductive Sensors

Inductive proximity sensors generate a magnetic field from their detection faces. Whenever a detectable object moves into the sensor's field of detection, Eddy currents build up in the target and dampen the sensor's magnetic field. This effect triggers the sensor's output. Since a current in the target is needed for detection, inductive proximity sensors are uniquely suited for detection of all types of metals.

ADVANTAGES

- -Not affected by humidity and dust
- -No moving parts, no mechanical wear
- -Independent of the color of the object to detect
- -No dead zone

DISADVANTAGES

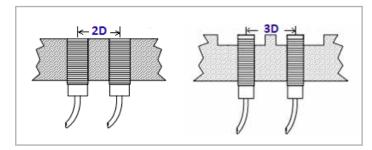
- -only detect metallic objects
- -low operating distance
- -sensitive to electromagnetic interference (such as electric welding, induction ovens)

Shielded models - FLUSH mounting

Shielded models can be installed with their sensing faces flush to the metal. The distance from opposing metal surfaces must be ≥ 3 sn and the distance between two proximity switches (side-byside) $\geq 2D$.

Unshielded models - NON-FLUSH mounting

Unshielded models can be identified by their 'caps", since they have no metal housing surrounding the area of the sensing face. The sensing face must extend ≥ 2sn from the metallic installation medium. The distance from opposing metal surfaces must be ≥ 3sn and the distance between two adjacent proximity switches ≥ 3D. The metal body leaves uncovered part of the sensing area resulting in an increased sensing distance.



Main tubular models are available in both nickel plated brass and stainless steel housing, with the active sensing face in LCP plastic.

METAL FACE version:

Are available stainless steel versions (M12,M18). Are used in especially harsh environments and applications which are too extreme for standard sensors. They resist to abrasive media, aggressive cleaners and solvents with their rugged sensing face. IP67 protection.

WELD FIELD IMMUNE version:

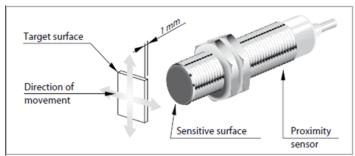
These special field immune models are ideal for welding environments and other applications where large magnetic fields are present. They are rated for reliable operation near the current line carrying 20,000 amps.

NAMUR version:

Are available 2 wires versions (M5, M6,5, M8, M12, M18, M30). They can be used in conjunction with suitable switching amplifiers. The switch amplifier must be installed outside the explosive area. Almost all versions have IP67 mechanical protection.

Nominal Switching distance (Sn) According to EN 60947-5-2

When an inductive proximity sensor is rated for sensing distance, it refers to the sensor's ability to detect the 'standard detectable object" at its specified sensing distance. The 'standard detectable object" is a 1mm thick square piece of ferrous iron that is in height and width the size of the proximity sensor's detection face's diameter.

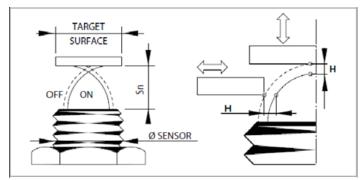


When the object to be detected is a different metal material, multiply the value of the rated operating distance for a reduction factor. The table beside shows the average reduction factors of materials according to the standards.

REDUCTION FACTOR	
Fe37	1 x Sn*
Stainless Steel AISI316L (X2CrNiMo17-12-2, UNI EN 10088-3)	0,9 x Sn
Brass-Bronze (CuZn33, UNI EN 12163:1999)	0,5 x Sn
Aluminum (25°C) (EN AW-1060, UNI EN 573-3:2006)	0,4 x Sn
Copper (Cu-DHP, UNI EN 1652:1999)	0,3 x Sn

Hysteresis (H):

distance between the point of switching on and the point of switching off of the trigger object. The value is a percentage of the nominal switching distance Sn.



AC/DC version:

Are available 2/3-wires versions (M12, M18, M30), that operate in alternating current with voltage drop of 5 V for currents of the order of 100mA.

To be able to provide a proper potential drop at the load, it is recommended to power the sensors with at least a supply voltage equal to the Voltage drop indicated (5V).

"M12/18/30 models are Diversey and ECOLAB tested"







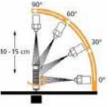


M12/18/30 FLUSH Vdc models are ATEX certified

II 3G EX nA II T6

II 3D EX tD A22 IP67 T85°C





IP69K

The Stainless Steel series is rated IP69K.

OPERATING DISTANCE

MODEL	M4	M5	M6,5	M8	M12	M18	M30	SQUARE
DIAMETER (mm)	4	5	6,5	8	12	18	30	8X8; 40X40
OPERATING DISTANCE (mm)	0,8	0,81,5	13	1,53	28	514	1020	1,530

HOUSING LENGTHS

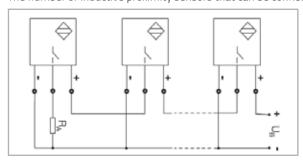
The following table shows the approximate length (mm) intervals for all categories and models of tubular inductive sensors.

MODELS	STAN	IDARD	SHORT	
MODELS	connector	cable	connector	cable
M4		25		
M5	40	2025		
M6,5	5363	4655	5054	4044
M8	5273	4455	4857	4044
M12	6872	5864	4854	4248
M18	7382	7078	5665	4756
M30	7485	7082	5668	4956

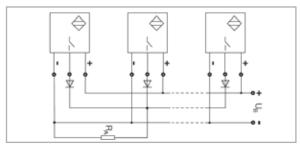
WIRFS

ТҮРЕ	description
	Work with sinking or sourcing devices
2-3 WIRES	Vdc, Vac and NAMUR versions
	Higher leakage current
	Must select PNP or NPN, NC or NO version
3 WIRES	10-30 Vdc version
	Low leakage current
4 WIRES	Programmable output
4 WIKES	PNP/NPN and NC/NO in one device

The number of inductive proximity sensors that can be connected in series or parallel is limited.



Parallel connection: the leakage current of each single sensor, when added to the other, may accumulate and drive the load even in the absence of operated switches.



This problem is more relevant in versions AC 2-wire, because of the high voltages and currents supplied to the sensor. For this type of connection you should use a 3-wire sensors working in DC.

ELECTRICAL PARAMETERS

NOMINAL VOLTAGE Is the permissible voltage range in which certain safe operation of the switch is guaranteed.

RESIDUAL RIPPLE Is the maximum admissible ripple of the DC supply voltage shown as percentage to its medium value.

MAX. OUTPUT CURRENT It shows maximum output current a sensor can cope with when working steadly.

MIN. OUTPUT CURRENT Is the smallest load current required for function of the switch when ON.

RESIDUAL CURRENT Is the current flowing through the load when a proximity switch is not conducting (open).

VOLTAGE DROP Is the voltage measured across the load of a closed (conducting) sensor at load current.

Is the time from when the supply voltage is applied, and the proximity switch assumes the ready state. This time may not be longer than 300 ms. During this time there must be no fault signal longer than 2 ms.

SWITCHING FREQUENCY Refers to the maximum number of switching operations per second.

SHORT CIRCUIT PROTECTION Is 100 A, i. e., per EN 60947-5-2 the power supply during testing in short circuit mode must be able to provide at least 100 A for a short duration. This current is prescribed in the standard in order to test.

PROTECTION AGAINST INVERSION OF POLARITY Available in DC supplied type, it prevents the sensor from being damage when supply cables are

incorrectly connected.
 INDUCTIVE LOAD PROTECTION
 It protects sensor output in presence of high inductive loads

It protects sensor output in presence of high inductive loads. This protection is performed by a diode or zenner diode.

BASIC STAINLESS STEEL 32

- Nickel-plated Brass housing
- LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance: 1,5 ... 20 mm
- M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 2, 3 or 4 wires
- PNP, NPN, PNP/NPN, NO, NC, NO/NC
- IP67 protection

- Stainless Steel housing
- M4, M5 POM active face M6,5, M8, M12, M18, M30 LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance 0.8 ... 20 mm
- M4, M5, M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 3 wires
- PNP, NPN, NO, NC
- IP69K protection

INDUCTIVE AC S4 NAMUR 60

- Nickel-plated Brass housing
- PA 16 active face
- Standard length
- Operating distance 2 ... 10 mm
- M12, M18, M30
- cable or M12 connector
- 20+250 Vac (50,60 Hz)
- 2 or 3 wires
- NO
- IP67 protection

- Nickel-plated Brass housing
- LCP active face
- Short length
- Operating distance 0.8 ... 15 mm
- M12, M18
- cable, M8 or M12 connector
- 2 wires
- PNP, NO
- IP67 protection

M4

- flush
- Stainless Steel
- op.dist.: 0,8 mm
- diameter: 4 mm
- 3 wires
- PNP or NPN, N.O.
- cable

M5

- flush
- Stainless Steel
- op.dist.: 0,8 mm
- double range vers.: 1,5 mm
- diameter: 5 mm
- 3 wires
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M8 connector or cable

M6,5

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 1,5...2 mm
- double range vers.: 2...3
- diameter: 6,5 mm
- standard or short housing
- 3 wires
- NAMUR (2wires) vers.
- PNP or NPN, N.O., N.C.
- M8 connector or cable

M8

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 1,5...2 mm
- double range vers.: 2...3
- diameter: 8 mm
- standard or short housing
- 3 wires
- NAMUR (2wires) vers.
- PNP or NPN, N.O., N.C.
- M8, M12 connector or cable

M12

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 2...4 mm
- double range vers.: 4...8 mm
- diameter: 12 mm
- standard or short housing
- 2, 3, 4 (programmable NPN/PNP output) wires
- Vac/Vdc vers.
- Metal Face vers.
- NAMUR vers.
- Field Immune vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable

46 **METAL FACE**

- Stainless Steel housing
- Stainless Steel AISI 303 active face
- Stainless Steel active face
- Standard length
- 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

70 **SQUARE**

- PBT (resin) or Nickel-plated Brass housing
- Operating distance 1.5 ... 15 mm
- 40x40 mm or 8x8 mm dimension
- cable, M8 connector or Terminal Block
- 2 or 3 wires
- PNP, PNP/NPN, NO, NC, NO/NC
- IP67

WELD FIELD IMMUNE

- Stainless Steel housing
- PTFE active face
- Standard length
- Operating distance 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

CAPACITIVE

- Nickel plated brass
- M18, M30
- Basic line NO-NC
- Capacitive A.C. (plastic housing)
- Multivoltage (SPDT relay)
- Operating distance: 5...25 mm
- Cable or M8 connector
- 2.4.6 wires
- PNP or NPN, N.O. and N.C. outputs, SPDT relay
- Delay ON or delay OFF model
- IP67 protection

CABLES, CONNECTORS & ACCESSORIES

84

50

76

M18

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 5...8 mm
- double range vers.: 8...14 mm
- diameter: 18 mm
- standard or short housing
- 2, 3 4 (programmable NPN/PNP output) wires
- Vac/Vdc vers.
- Metal Face vers.
- Field Immune vers.
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
- Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.

M30

- flush, non-flush
- Stainless Steel, Nickel plated-Brass

- op.dist.: 10...15 mm
- double range vers.: 15...20 mm
- diameter: 30 mm
- standard or short housing
- 2, 3, 4 (programmable NPN/PNP output) wires
- Vac/Vdc vers.
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable - Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.
- Capacitive Multivoltage with timer relay output

SQUARE 40X40

- flush, non-flush
- standard or short housing
- Plastic (PBT resin)
- op.dist.: 15...30 mm; 7-20 mm (Analog vers.)
- diameter: 40 mm
- 2, 3 wires
- Vac/Vdc vers.
- Analog output 4-20mA vers.
- PNP or NPN, N.O., N.C.
- Terminal block

SQUARE 8X8

- flush
- Nickel-Plated Brass
- op.dist.: 1,5 mm
- diameter: 8 mm
- 3 wires, PNP, N.O.
- M8 connector or cable

BASIC

Nickel-plated Brass housing

LCP active face

Standard length

Short length

Normal and double range operating distance

Operating distance: 1,5 ... 20 mm

M6,5, M8, M12, M18, M30

cable, M8 or M12 connector

2, 3 or 4 wires

PNP, NPN, PNP/NPN, NO, NC, NO/NC

IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

"M12/18/30 models are Diversey and ECOLAB tested"







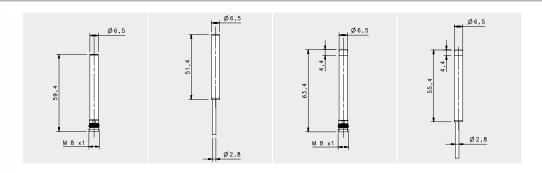




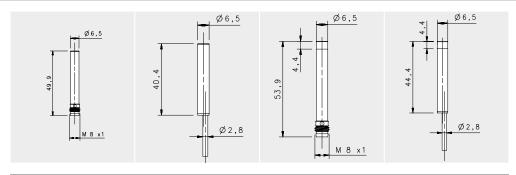
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BASIC M6.5



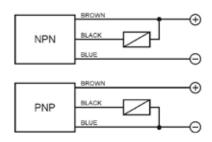


					SIAN	DARD	
				FLU	SH	NON I	FLUSH
				M8 conn	cable	M8 conn	cable
NOMINAL SWITCH	IING DISTANO	CE		1,5 mm	1,5 mm	2 mm	2 mm
	PNP/NPN						
10-30 Vdc	NO-NC	4 wires	order No.				
	PNP			IS-65-A1-S1	IS-65-A1-03	IS-65-C1-S1	IS-65-C1-03
10-30 Vdc	NO	3 wires	order No.	95B066050	95B064730	95B066210	95B064890
	PNP			IS-65-A2-S1	IS-65-A2-03	IS-65-C2-S1	IS-65-C2-03
10-30 Vdc	NC	3 wires	order No.	95B066090	95B064770	95B066250	95B066300
	NPN			IS-65-A3-S1	IS-65-A3-03	IS-65-C3-S1	IS-65-C3-03
10-30 Vdc	NO	3 wires	order No.	95B064970	95B064650	95B066130	95B064810
	NPN			IS-65-A4-S1	IS-65-A4-03	IS-65-C4-S1	IS-65-C4-03
10-30 Vdc	NC	3 wires	order No.	95B066010	95B064690	95B066170	95B064850
	PNP						
10-30 Vdc	NO-NC	4 wires	order No.				
	NPN						
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires	order No.				
20-250 Vac/Vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/3 wires	order No.				
	Analog						
10-30 Vdc	0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Curre	nt			200 mm	200 mA	200 mm	200 mA
Min. Output Curre	nt						
Residual Current				< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
Voltage Drop				< 1,2 V (I=100 mA)			
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequer	ncy			1000 Hz	1000 Hz	1000 Hz	1000 Hz
Start Up Delay				< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads			
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					3x 0,14 mm²		3x 0,14 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active Face				LCP	LCP	LCP	LCP
Tightening torque							
Weight - Cable Out	put				80 g		80 g
Weight - Connecto	r Output			40 g		40 g	



	SHO	ORT	
FLU		NON F	LUSH
M8 conn	cable	M8 conn	cable
1,5 mm	1,5 mm	2 mm	2 mm
IS-65-B1-S1	IS-65-B1-03	IS-65-D1-S1	IS-65-D1-03
95B066070	95B064750	95B066230	95B064910
IS-65-B2-S1	IS-65-B2-03	IS-65-D2-S1	IS-65-D2-03
95B066110	95B064790	95B066270	95B064950
IS-65-B3-S1	IS-65-B3-03	IS-65-D3-S1	IS-65-D3-03
95B064990	95B064670	95B066150	95B064830
IS-65-B4-S1	IS-65-B4-03	IS-65-D4-S1	IS-65-D4-03
95B066030	95B064710	95B066190	95B066190
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
	-	· ·	-
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
	80 g		80 g
40 g		40 g	

3 wires PNP or NPN



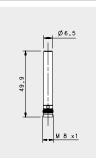
M83 pole

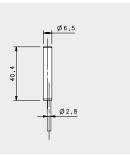


CONT	ACTS CON	FIGURAT	ION
1275-0792-05	Con	tacts nur	bers
Available	1 BROWN	3 HUE	HACK
NPN/PNP	+	=	NO/NO

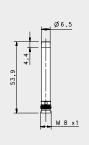
BASIC M6.5



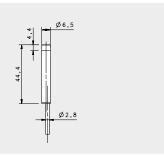




				SHOP	RT X2	
				FLU	ISH	
				M8 conn	cable	
IOMINAL SWITCH	IING DISTANO	CE		2 mm	2 mm	
	PNP/NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
	PNP			IS-65-G1-S1	IS-65-G1-03	
10-30 Vdc	NO	3 wires	order No.	95B066060	95B064740	
10.20111	PNP	<u>.</u>		IS-65-G2-S1	IS-65-G2-03	
10-30 Vdc	NC	3 wires	order No.	95B066100	95B064780	
10. 20.1/4-	NPN	2		IS-65-G3-S1	IS-65-G3-03	
10-30 Vdc	NO	3 wires	order No.	95B064980	95B064660	
10. 20.1/4-	NPN	2		IS-65-G4-S1	IS-65-G4-03	
10-30 Vdc	NC	3 wires	order No.	95B066020	95B064700	
10.70.1/4-	PNP	,				
10-30 Vdc	NO-NC	4 wires	order No.			
10. 20.1/4-	NPN	,				
10-30 Vdc	NO-NC	4 wires	order No.			
10. 20.1/4-	NO NC	2				
10-30 Vdc	NO-NC	2 wires	order No.			
20. 250 1/ /1/-	NO	2				
20-250 Vac/Vdc	NO	2 wires	order No.			
00. 250 1/ 11/4-	NC	2				
20-250 Vac/Vdc	NC	2 wires	order No.			
20. 250 1/	NO	2/3 wires	2/3 wires			
20-250 Vac	NO			order No.		
10 20 1/4-	Analog	2				
10-30 Vdc	0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires				
valvior ampline	IVAIVIOR	2 WIIES	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
lysteresis				< 10%	< 10%	
Max. Output Currei	nt			200 mA	200 mA	
Min. Output Curre	nt					
Residual Current				< 10 mA	< 10 mA	
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	
witching Frequer	тсу			500 Hz	500 Hz	
itart Up Delay				< 75 ms	< 75 ms	
Repeatability				< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
lectric Protection	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
rotection Degree				IP67	IP67	
able Length					2 m	
able Section					3 x 0,14 mm²	
lousing Material				Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	
ightening torque						
Weight - Cable Out	put				80 g	
Neight - Connecto	r Output			40 g		

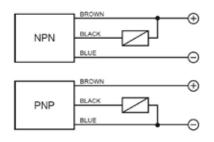


40 g



SHO	RT X 2
	FLUSH
M8 conn	cable
3 mm	3 mm
	3 mm
 IS-65-H1-S1	 IC CE 114 02
	IS-65-H1-03
95B066220	95B064900
IS-65-H2-S1	IS-65-H2-03
958066260	958064940
IS-65-H3-S1	IS-65-H3-03
958066140	958064820
IS-65-H4-S1	IS-65-H4-03
95B066180	95B064860
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
500 Hz	500 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity	Against polarity reversal
reversal inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP67	IP67
	2 m
	3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass
LCP	LCP
	80 g
	b

3 wires PNP or NPN



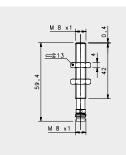
M8 3 pole

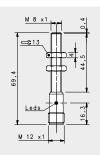


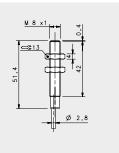
CONT	ACTS (CONFI	GURA	TION

Numerica Care	Con	stacts num	bers
Available	f snown	3 BUE	BLACK
NPN/PNP	+	-	NOINC

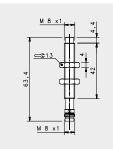


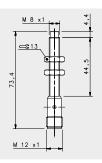


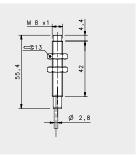




					STANDARD		
					FLUSH		
				M8 conn	M12 conn	cable	
OMINAL SWITCH	IING DISTANO	CE		1,5 mm	1,5 mm	1,5 mm	
10.001/1	PNP/NPN	1, .					
10-30 Vdc	NO-NC	4 wires	order No.				
10. 70.1/4-	PNP	2		IS-08-A1-S1	IS-08-A1-S2	IS-08-A1-03	
10-30 Vdc	NO	3 wires	order No.	95B061141	95B061131	95B061121	
10 20 1/4-	PNP	2		IS-08-A2-S1	IS-08-A2-S2	IS-08-A2-03	
10-30 Vdc	NC	3 wires	order No.	95B061171	95B061161	95B061151	
10-30 Vdc	NPN	3 wires		IS-08-A3-S1	IS-08-A3-S2	IS-08-A3-03	
10-30 vac	NO	5 WIIES	order No.	95B061081	95B061071	95B061061	
10-30 Vdc	NPN	3 wires		IS-08-A4-S1	IS-08-A4-S2	IS-08-A4-03	
10-30 vac	NC	2 MILE2	order No.	95B061111	95B061101	95B061091	
10-30 Vdc	PNP	4 wires					
50 140	NO-NC	4 WIICS	order No.				
10-30 Vdc	NPN	4 wires					
	NO-NC		order No.				
10-30 Vdc	NO-NC	2 wires					
			order No.				
20-250 Vac/Vdc	NO	2 wires					
			order No.				
20-250 Vac/Vdc	NC	2 wires	2 wires				
			order No.				
20-250 Vac	NO	2/3 wires					
			order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	N -				
	0-20 IIIA		order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
			order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	
Max. Output Curre	nt			200mA	200mA	200mA	
Min. Output Curre							
Residual Current	110			< 10 mA	< 10 mA	< 10 mA	
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	Yellow	
Switching Frequer	ncv			1000 Hz	1000 Hz	1000 Hz	
Start Up Delay	1			< 50 ms	< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
rotection Degree				IP67	IP67	IP67	
able Length						2 m	
Table Section						3x 0,14 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	
Fightening torque				4Nm	4Nm	4Nm	
Neight - Cable Out	put					80 g	
Weight - Connecto				35g	55g		

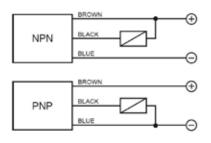






	STANDARD	
	NON FLUSH	
Mosses		
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C1-S1	IS-08-C1-S2	IS-08-C1-03
95B061541	95B061531	95B061521
IS-08-C2-S1	IS-08-C2-S2	IS-08-C2-03
95B061571	95B061561	95B061551
IS-08-C3-S1	IS-08-C3-S2	IS-08-C3-03
95B061481	95B061471	95B066410
IS-08-C4-S1	IS-08-C4-S2	IS-08-C4-03
95B061511	95B061501	95B066450
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g
35g	55g	
	אהר	-

3 wires PNP or NPN



M12 3 pole



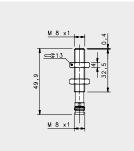
No. of Labor.	Contacts numbers				
Available .	1	2	3	4	
(NO or NC)	+			NO/NO	

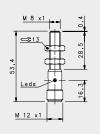
M8 3 pole

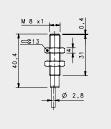


CONT	ACTS CON	FIGURATI	ON		
ens-day-	Contacts numbers				
vallable	BROWN	3 BUSE	BLACK		
	1.0000000000000000000000000000000000000		100000		

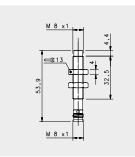


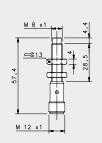


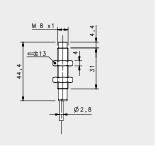




					SHORT	
					FLUSH	
				M8 conn	M12 conn	cable
OMINAL SWITCH	ING DISTAN	CE		1,5 mm	1,5 mm	1,5 mm
	PNP/NPN					
0-30 Vdc	NO-NC	4 wires	order No.			
	PNP	l		IS-08-B1-S1	IS-08-B1-S2	IS-08-B1-03
0-30 Vdc	NO	3 wires	order No.	95B066860	95B066590	95B061921
	PNP			IS-08-B2-S1	IS-08-B2-S2	IS-08-B2-03
0-30 Vdc	NC	3 wires	order No.	95B066890	95B066620	95B061951
	NPN			IS-08-B3-S1	IS-08-B3-S2	IS-08-B3-03
0-30 Vdc	NO	3 wires	order No.	95B066810	95B066530	95B061861
	NPN			IS-08-B4-S1	IS-08-B4-S2	IS-08-B4-03
0-30 Vdc	NC	3 wires	order No.	95B066830	95B066560	95B061891
	PNP					
0-30 Vdc	NO-NC	4 wires	order No.			
	NPN					
0-30 Vdc	NO-NC	4 wires	order No.			
0-30 Vdc	NO-NC	2 wires	order No.			
:0-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
			0.46.110.			
:0-250 Vac	NO	2/3 wires	order No.			
	Analog		0.46.110.			
0-30 Vdc	0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%
Max. Output Currer	nt			200mA	200mA	200mA
/lin. Output Currei	nt					
Residual Current				< 10 mA	< 10 mA	< 10 mA
oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led				Yellow	Yellow	Yellow
Switching Frequen	ıcy			1000 Hz	1000 Hz	1000 Hz
Start Up Delay	,			< 50 ms	< 50 ms	< 50 ms
Repeatability				< 3%	< 3%	< 3%
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				(-25 +70 °C) IP67	(-25 +70 °C) IP67	(-25 +70 °C)
				iP6/ 		2 m
Table Length					 	2 m 3 x 0,14 mm²
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP
ightening torque				4Nm	4Nm	4Nm
Weight - Cable Out						80 g
Weight - Connector	r Output			35g	55g	

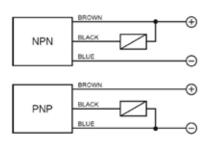






	SHORT	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
 IS 00 P4 S4	 IS 00 D4 53	 IS 00 P4 02
IS-08-D1-S1	IS-08-D1-S2	IS-08-D1-03
95B066970	95B066700	95B062321
IS-08-D2-S1	IS-08-D2-S2	IS-08-D2-03
95B067000	95B066720	95B062351
IS-08-D3-S1	IS-08-D3-S2	IS-08-D3-03
95B066920	95B066650	95B066430
IS-08-D4-S1	IS-08-D4-S2	IS-08-D4-03
95B066940	95B066670	95B062291
40. 20 \ \ \ 45 \ 40 \ \	10 2011 (15 (10))	40 2011 / 45 (40%)
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	LCP 4Nm
4(1)111	411111	
25-	55-	80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



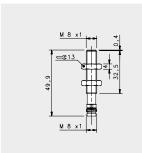
C	ONTACTO	CONFIGU	RATION			
Available	Contacts numbers					
Available .	1	2	3	4		
(NO or NC)	+			NO/NC		

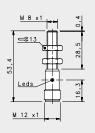
M8 3 pole

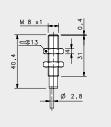


anne de la	Contacts numbers				
Available	BROWN	3 BUSE	BLACK		
NEN/ENE	+	-	NO/NO		

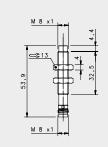


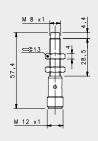


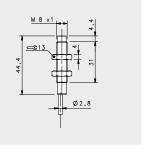




					SHURT AZ				
					FLUSH				
				M8 conn	M12 conn	cable			
OMINAL SWITCH	ING DISTANC	Œ		2 mm	2 mm	2 mm			
	PNP/NPN								
10-30 Vdc	NO-NC	4 wires	order No.						
	PNP			IS-08-G1-S1	IS-08-G1-S2	IS-08-G1-03			
10-30 Vdc	NO	3 wires	order No.	95B066850	95B066580	95B066370			
	PNP			IS-08-G2-S1	IS-08-G2-S2	IS-08-G2-03			
10-30 Vdc	NC	3 wires	order No.	95B066880	95B066610	95B066390			
	NPN		order ivo.	IS-08-G3-S1	IS-08-G3-S2	IS-08-G3-03			
10-30 Vdc	NO	3 wires	order No.	95B066800	95B066520	95B066330			
			order ivo.	IS-08-G4-S1	IS-08-G4-S2	IS-08-G4-03			
10-30 Vdc	NPN NC	3 wires	order No.	95B063131	95B066550	95B066350			
			order No.		95000550				
0-30 Vdc	PNP NO-NC	4 wires	order No						
			order No.						
0-30 Vdc	NPN NO-NC	4 wires	andan Na						
	INO-INC		order No.						
10-30 Vdc	NO-NC	2 wires	N -						
			order No.						
20-250 Vac/Vdc	NO	2 wires							
			order No.						
20-250 Vac/Vdc	NC	2 wires	2 wires	2 wires	2 wires				
			order No.						
20-250 Vac	NO	2/3 wires							
230 140		2,3 111103	order No.						
10-30 Vdc	O.V.dc Analog 3.v	3 wires							
	0-20 mA	3 1111103	order No.						
NAMUR amplifier	NAMUR	2 wires							
			order No.						
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)			
Residual Ripple				< 10%	< 10%	< 10%			
Hysteresis				< 10%	< 10%	< 10%			
Max. Output Currei				200mA	200mA	200mA			
Min. Output Curre	nt								
Residual Current				< 10 mA	< 10 mA	< 10 mA			
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)			
peration Led				Yellow	Yellow	Yellow			
witching Frequer	ncy			500 Hz	500 Hz	500 Hz			
itart Up Delay				< 75 ms	< 75 ms	< 75 ms			
Repeatability				< 3%	< 3%	< 3%			
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)			
				Against polarity reversal	Against polarity reversal	Against polarity reversal			
Electric Protection	1			inductive loads	inductive loads	inductive loads			
				inductive loads					
emperature Limit					inductive loads (-25 +60 °C) IP67	inductive loads (-25 +70 °C) IP67			
emperature Limit Protection Degree				inductive loads (-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C) IP67			
Temperature Limit Protection Degree Cable Length				inductive loads (-25 +60 °C) IP67 	(-25 +60 °C) IP67 	(-25 +70 °C) IP67 2 m			
emperature Limit Protection Degree Cable Length Cable Section				inductive loads (-25 +60 ° C) IP67 	(-25 +60 °C) IP67 	(-25 +70 °C) IP67 2 m 3 x 0,14 mm²			
Temperature Limit Protection Degree Cable Length Cable Section Housing Material				inductive loads (-25 +60 ° C) IP67 Nickel-plated brass	(-25 +60 °C) IP67 Nickel-plated brass	(-25 +70 °C) IP67 2 m 3 x 0,14 mm² Nickel-plated brass			
Temperature Limit Protection Degree Cable Length Cable Section Housing Material Active face				inductive loads (-25 +60 ° C) IP67 Nickel-plated brass LCP	(-25 +60 °C) IP67 Nickel-plated brass LCP	(-25 +70 °C) IP67 2 m 3 x 0,14 mm² Nickel-plated brass LCP			
Electric Protection Temperature Limit Protection Degree Cable Length Cable Section Housing Material Active face Tightening torque Weight - Cable Out				inductive loads (-25 +60 ° C) IP67 Nickel-plated brass	(-25 +60 °C) IP67 Nickel-plated brass	(-25 +70 °C) IP67 2 m 3 x 0,14 mm² Nickel-plated brass			

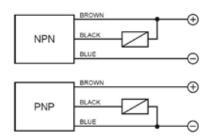






	SHORT X2	
	NON FLUSH	
M8 conn	M12 conn	cable
3 mm	3 mm	3 mm
5	3 IIIIII	3 111111
 IC 00 H4 C4		 IC 00 111 02
IS-08-H1-S1	IS-08-H1-S2	IS-08-H1-03
95B066960	95B066690	95B066480
IS-08-H2-S1	IS-08-H2-S2	IS-08-H2-03
95B066990	95B063301	95B066500
IS-08-H3-S1	IS-08-H3-S2	IS-08-H3-03
95B066910	95B066640	95B066420
IS-08-H4-S1	IS-08-H4-S2	IS-08-H4-03
95B063251	95B063241	95B066460
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
500 Hz	500 Hz	500 Hz
< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



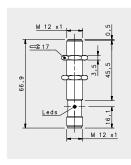
C	ONTACTS	CONFIGU	RATION		
No. of London	Contacts numbers				
Available .	1	2	3	4	
(NO or NC)	+			NO/NO	

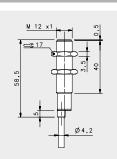
M8 3 pole

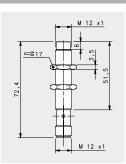


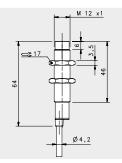
CONTACTS CONFIGURATION					
vanna days	Contacts numbers				
Available	1 BROWN	3 BUSE	BLACK		
NPN/PNP	+	-	NOINC		



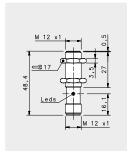


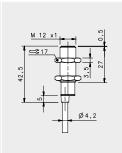


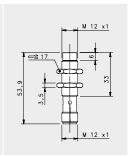


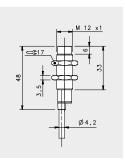


					STAN	DARD	
				FL	JSH	NON I	FLUSH
				M12 conn	cable	M12 conn	cable
IOMINAL SWITCHII	NG DISTANO	CE		2 mm	2 mm	4 mm	4 mm
	PNP/NPN			IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03
10-30 Vac	NO-NC	4 wires	order No.	95B064060	95B064030	95B064080	95B064040
40.20141	PNP	. .		IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03
10-30 Vdc	NO	3 wires	order No.	95B061251	95B061241	95B061651	95B061641
10-30 Vdc	PNP	3 wires		IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03
10-30 Vuc	NC	5 WITES	order No.	95B061281	95B061271	95B061681	95B061671
	NPN	3 wires		IS-12-A3-S2	IS-12-A3-03	IS-12-C3-S2	IS-12-C3-03
10 30 Vac	NO	2 MILE2	order No.	95B061191	95B061181	95B061591	95B061581
10-30 Vac	NPN	3 wires		IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03
	NC	5 1165	order No.	95B061221	95B061211	95B061621	95B061611
10-30 Vdc	PNP	4 wires					
	NO-NC		order No.				
	NPN	4 wires					
	NO-NC		order No.		 IC 43 A0 03		
10-30 Vdc	NO-NC	2 wires	audau Na	IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03
			order No.	95B063931 	95B064100 	95B064140 	95B064110
20-250 Vac/Vdc	NO	2 wires	order No.				
			order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
			order ivo.				
20-250 Vac	NO	2/3 wires	order No.				
	Analog		0.00.00				
	0-20 mA	3 wires	order No.				
NAMED PC	NAMES	<u>.</u> .					
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Current				200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Current	t			> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current				< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)
Voltage Drop				< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequenc	.y			1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-N
Start Up Delay				< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	#:a.u.			< 3%	< 3%	< 3%	< 3%
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Tightening torque				10Nm	10Nm	10Nm	10Nm
Weight - Cable Outp	ut				110 g		110 g
				60 g		60 g	110 6



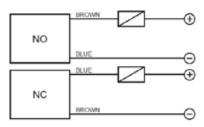




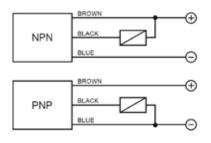


	CIII	ODT	
		ORT	
FLU		NON F	
M12 conn	cable	M12conn	cable
2 mm	2 mm	4 mm	4 mm
 IC 42 D4 C2	 IC 42 D4 02	 IC 42 D4 C2	 IC 42 D4 02
IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03
95B062051 IS-12-B2-S2	95B062041 IS-12-B2-03	95B062451 IS-12-D2-S2	95B062441 IS-12-D2-03
95B062081	95B062071	95B062481	95B062471
IS-12-B3-S2	IS-12-B3-03	IS-12-D3-S2	IS-12-D3-03
95B061991	95B061981	95B062391	95B062381
IS-12-B4-S2	IS-12-B4-03	IS-12-D4-S2	IS-12-D4-03
95B062021	95B062011	95B062421	95B062411
			
			
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
10Nm	10Nm	10Nm	10Nm
	110 g		110 g
60 g		60 g	
. 0		<u> </u>	

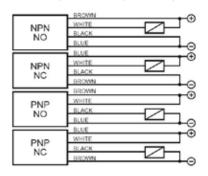
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

Available	Contacts numbers				
	1	2	3	2.4	
NO	+		-		
NO	2		+		

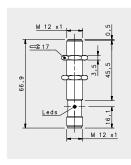
3 wires

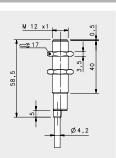
C	ONTACTS	CONFIGU	RATION	
4	Contacts numbers			
Available	-1	2	3	4
(NO or NC)	+		-	NO/NO

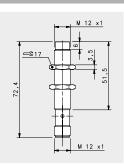
4 wires (PNP/NPN, NO/NC)

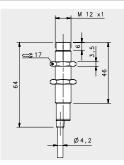
Output	Contacts numbers				
Cutput	1	2	3	4	
NPN NO	+	NO	12		
NPN NC	-	NC	+	-	
PNP NO	+	+	-	NO	
PNP NC	-	+	+	NO	



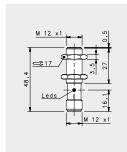


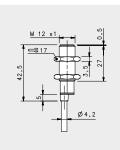


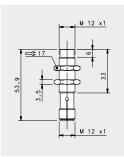


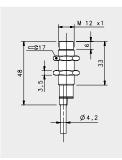


					STAND	ARD X2	
				FLI	JSH		FLUSH
				M12 conn	cable	M12 conn	cable
IOMINAL SWITCH	ING DISTAN	CE		4 1	mm	8 г	nm
	PNP/NPN			IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03
10-30 Vdc	NO-NC	4 wires	order No.	95B067230	95B067190	95B067250	95B067210
40.2014-	PNP	2		IS-12-E1-S2	IS-12-E1-03	IS-12-F1-S2	IS-12-F1-03
10-30 Vdc	NO	3 wires	order No.	95B067030	95B067670	95B067020	95B067740
40.2014-	PNP	2		IS-12-E2-S2	IS-12-E2-03	IS-12-F2-S2	IS-12-F2-03
10-30 Vdc	NC	3 wires	order No.	95B067640	95B067680	95B067710	95B067750
10-30 Vdc	NPN	2 mines		IS-12-E3-S2	IS-12-E3-03	IS-12-F3-S2	IS-12-F3-03
10-50 Vuc	NO	3 wires	order No.	95B067650	95B067690	95B067720	95B067760
10-30 Vdc	NPN	3 wires		IS-12-E4-S2	IS-12-E4-03	IS-12-F4-S2	IS-12-F4-03
10-30 Vuc	NC	5 WIIES	order No.	95B067660	95B067700	95B067730	95B067770
10-30 Vdc	PNP	4 wires					
10-30 Vac	NO-NC	4 WIICS	order No.				
10-30 Vdc	NPN	4 wires					
10 30 140	NO-NC	- WII C5	order No.				
10-30 Vdc	NO-NC	2 wires		IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03
		2 1111103	order No.	95B067240	95B067200	95B067260	95B067220
20-250 Vac/Vdc	NO	2 wires					
20 230 140, 140		2 1111103	order No.				
20-250 Vac/Vdc	NC	2 wires					
			order No.				
20-250 Vac	NO	2/3 wires					
			order No.				
10-30 Vdc	Analog 0-20 mA 3 wires	3 wires					
		order No.					
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Curre	nt			100 mA	100 mA	100 mA	100 mA
Min. Output Curre							
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Freque	ncv			500 Hz/200 Hz (2 wires NO-NC)	500 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NO
Start Up Delay	1			< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal
				inductive loads	inductive loads	inductive loads	inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length							
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Tightening torque				10Nm	10Nm	10Nm	10Nm
Weight - Cable Out							
Weight - Connecto	r Output			60 g	60 g	60 g	60 g

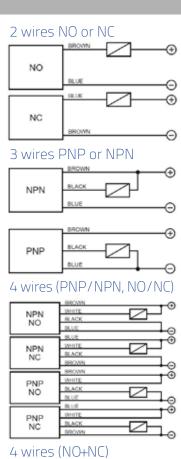


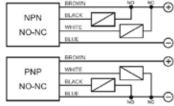






	SHOP	RT X2	
FLL	JSH	NON F	LUSH
M12 con	cable	M12 conn	cable
4 mm	4 mm	8 mm	8 mm
IS-12-G1-S2	IS-12-G1-03	IS-12-H1-S2	IS-12-H1-03
95B063371	95B063361	95B063451	95B063441
IS-12-G2-S2	IS-12-G2-03	IS-12-H2-S2	IS-12-H2-03
95B063391	95B063381	95B063471	95B063461
IS-12-G3-S2	IS-12-G3-03	IS-12-H3-S2	IS-12-H3-03
95B063331	95B063321	95B063411	95B063401
IS-12-G4-S2	IS-12-G4-03	IS-12-H4-S2	IS-12-H4-03
95B063351	95B063341	95B063431	95B063421
IS-12-G5-S2	IS-12-G5-03	IS-12-H5-S2	IS-12-H5-03
95B062691	95B062681	95B062771	95B062761
IS-12-G6-S2	IS-12-G6-03	IS-12-H6-S2	IS-12-H6-03
95B062671	95B062661	95B062751	95B062741
10 20 Vdc/ 15/10%	10 20 \/dc/ 1E/10%\	10 20 \/dc/ 1E /10%\	10 20 \/dc/ 15 /10%\
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
00 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NO
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
10Nm	10Nm	10Nm	10Nm
	110 g		110 g
60 g		60 g	





M12 connector connections



2 wires NO or NC

Washington.	Contacts numbers				
Avaiable	1	2	3	- 4	
NO	*		-		
NC	-		+		

3 wires

C	ONTACT!	CONFIGU	RATION		
Avaiable	Contacts numbers				
Available	. 1	2	3	4	
(NO or NC)	+	20	-	NONC	

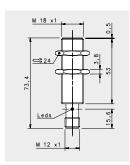
4 wires (PNP/NPN, NO/NC)

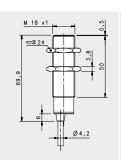
c	ONTACTS	CONFIGU	RATION		
O.m.s	Contacts numbers				
Output	. 1	- 2	- 3	- 4	
NPN NO	+	NO:	-	-	
NPN NC	-	NC	+	-	
PNPNO	+	+	-	NO	
PNP NC	-	+	+	NC	

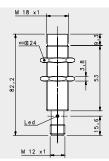
4 wires (NO+NC)

OCCUPANT.		Contacts	numbers	
Available	1	2	3	4
(NO + NC)	+	NC.	-	NO

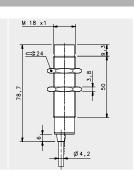




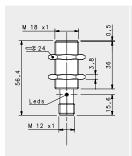


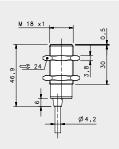


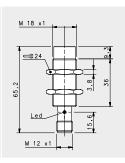
STANDARD

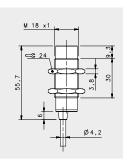


le
m
20-03
4240
C1-03
1741
22-03
1761
23-03
1701
24-03
1721
-
-
-
-
29-03
4310
-
-
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-
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-
- -
•
(-15/10%)
0%
ο» Ο%
mA
wires ver.) mA
(2wires ver.)
(2 wires NO-NC)
ms %
-resetting)
rity reversal e loads
+60 °C)
57
n
+ mm² + mm² 5 mm²
ted brass
ccu brass
P
Р



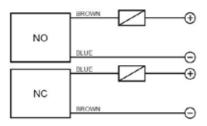




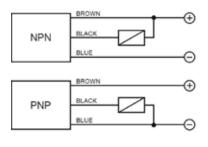


	SHORT							
FLU			LUSH					
M12 conn	cable	M12 conn	cable					
5 mm	5 mm	8 mm	8 mm					
IS-18-B1-S2	IS-18-B1-03	IS-18-D1-S2	IS-18-D1-03					
95B062151	95B062141	95B062551	95B062541					
IS-18-B2-S2	IS-18-B2-03	IS-18-D2-S2	IS-18-D2-03					
95B062171	95B062161	95B062571	95B062561					
IS-18-B3-S2	IS-18-B3-03	IS-18-D3-S2	IS-18-D3-03					
95B062111	95B062101	95B062511	95B062501					
IS-18-B4-S2	IS-18-B4-03	IS-18-D4-S2	IS-18-D4-03					
95B062131	95B062121	95B062531	95B062521					
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)					
< 10%	< 10%	< 10%	< 10%					
< 10%	< 10%	< 10%	< 10%					
200 mA	200 mA	200 mA	200 mA					
< 10 mA	< 10 mA	< 10 mA	< 10 mA					
< 1,8 V (I=100mA)								
Yellow	Yellow	Yellow	Yellow					
1000 Hz	1000 Hz	1000 Hz	1000 Hz					
< 50 ms	< 50 ms	< 50 ms	< 50 ms					
< 3%	< 3%	< 3%	< 3%					
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)					
Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal					
inductive loads	inductive loads	inductive loads	inductive loads					
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)					
IP67	IP67	IP67	IP67					
	2 m		2 m					
	3 x 0,14 mm²		3 x 0,14 mm²					
Niekal plated byse-	Midral wlated bree-	Niekal plated byes	Niekal wlated byse-					
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass					
LCP	LCP	LCP	LCP					
30Nm	30Nm	30Nm	30Nm					
	145g		145g					
95g		95g						

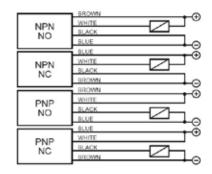
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

4004000	Contacts numbers				
Avelable	1	2	3	- 4	
NO	+		-		
NC	2		+		

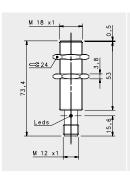
3 wires

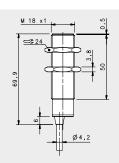
4.00.00		Contacts	numbers	
Available	.1	2	3	- 4
(NO or NC)	+		-	NO/NO

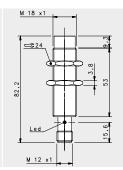
4 wires (PNP/NPN, NO/NC)

Output				
Compon	1	2	3	4
NPN NO	+	NO	2	
NPN NC	- 1	NC	+	-
PNP NO	+	+	-	NO
PNP NC	-	+	+	NO

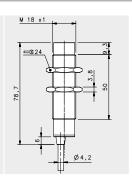




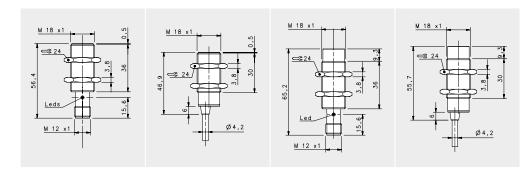




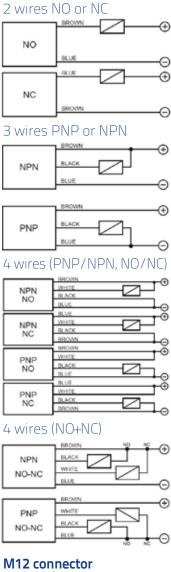
STANDARD X2



				FLUSH		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCHI	ING DISTAN	CE		8 m	ım	14 :	mm	
	PNP/NPN	l		IS-18-E0-S2	IS-18-E0-03	IS-18-F0-S2	IS-18-F0-03	
10-30 Vdc	NO-NC	4 wires	order No.	95B067310	95B067270	95B067330	95B067290	
	PNP	Ī		IS-18-E1-S2	IS-18-E1-03	IS-18-F1-S2	IS-18-F1-03	
10-30 Vdc	NO	3 wires	order No.	95B067050	95B067810	95B067040	95B067880	
	PNP			IS-18-E2-S2	IS-18-E2-03	IS-18-F2-S2	IS-18-F2-03	
10-30 Vdc	NC	3 wires	order No.	95B067780	95B067820	95B067850	95B067890	
	NPN			IS-18-E3-S2	IS-18-E3-03	IS-18-F3-S2	IS-18-F3-03	
10-30 Vdc	NO	3 wires	order No.	95B067790	95B067830	95B067860	95B067900	
10.201//	NPN	<u>.</u>		IS-18-E4-S2	IS-18-E4-03	IS-18-F4-S2	IS-18-F4-03	
10-30 Vdc	NC	3 wires	order No.	95B067800	95B067840	95B067870	95B067910	
10.20141	PNP	, .						
10-30 Vdc	NO-NC	4 wires	order No.					
10.201//	NPN	, .						
10-30 Vdc	NO-NC	4 wires	order No.					
				IS-18-E9-S2	IS-18-E9-03	IS-18-F9-S2	IS-18-F9-03	
10-30 Vdc	NO-NC	2 wires	order No.	95B067320	95B067280	95B067340	95B067300	
20.2501/ ////		<u>.</u> .						
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
20.2501/		2/2						
20-250 Vac	NO	2/3 wires	order No.					
10.201//	Analog	2						
10-30 Vdc	0-20 mA	3 wires	order No.					
NAMED lift	NAMUD	2						
NAMUR amplifier	NAMUR	2 wires	order No.					
Naminal Valtage				10 20 1/4- / 15 /10%	10 20 \/d= / 15 /10%\	10 20 \\d-\ 15 \10%\	10 20 1/4- / 15 /10%	
Nominal Voltage Residual Ripple				10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%) < 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
,	.+			200 mA	200 mA	200 mA	200 mA	
Max. Output Curren Min. Output Curren				200 IIIA	200 IIIA	200 MA	200 IIIA	
Residual Current	11.			< 10 mA	< 10 mA	< 10 mA	< 10 mA	
Voltage Drop Operation Led				< 1,2 V (I=100mA) Yellow	< 1,2 V (I=100mA) Yellow	< 1,2 V (I=100mA) Yellow	< 1,2 V (I=100mA) Yellow	
Switching Frequent	.c.,			400 Hz	400 Hz	100 Hz	100 Hz	
Start Up Delay	Ly			400 H2 < 50 ms	400 H2 < 50 ms	< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Protect	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Short circuit Frotet	CLIOII				-			
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length								
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
Tightening torque				30Nm	30Nm	30Nm	30Nm	
Weight - Cable Outp	put					145g	145g	
Weight - Connector				95g	95g			



	SHO	RT X2	
FLU		NON F	LUSH
M12 conn	cable	M12 conn	cable
8 mm	8 mm	14 mm	14 mm
IS-18-G1-S2	IS-18-G1-03	IS-18-H1-S2	IS-18-H1-03
95B063531	95B063521	95B063611	95B063601
IS-18-G2-S2	IS-18-G2-03	IS-18-H2-S2	IS-18-H2-03
95B063551	95B063541	95B063631	95B063621
IS-18-G3-S2	IS-18-G3-03	IS-18-H3-S2	IS-18-H3-03
95B063491	95B063061	95B063571	95B063561
IS-18-G4-S2	IS-18-G4-03	IS-18-H4-S2	IS-18-H4-03
95B063511	95B063501	95B063591	95B063581
IS-18-G5-S2	IS-18-G5-03	IS-18-H5-S2	IS-18-H5-03
95B062731	95B062721	95B062811	95B064220
IS-18-G6-S2	IS-18-G6-03	IS-18-H6-S2	IS-18-H6-03
95B062711	95B064200	95B062791	95B064210
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
400 Hz/100 Hz (4 wires NO-NC)			
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
30Nm	30Nm	30Nm	30Nm
	145g		145g
95g		95g	
0		0	



M12 connector connections

2 wires NO or NC

San Salata	Contacts numbers			
Available .	1	2	3	4
NO	*		_	
NC:	-		+	

3 wires

C	ONTACT	S CONFIGU	RATION		
A. artista	Contacts numbers				
Avarable	. 1	2	3	4	
(NO or NC)	+	- 20	-	NONC	

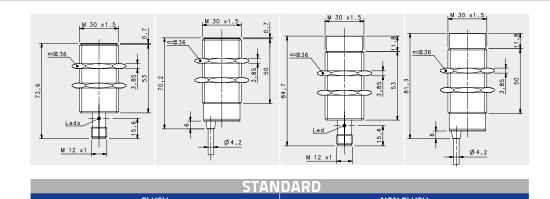
4 wires (PNP/NPN, NO/NC)

nana I		numbers		
Output	. 1	- 2	- 3	-4
NPN NO	+	NO:	-	-
NPN NC	-	NC	+	-
PNPNO	+	+	-	NO
PNPINC		+	+	NO

4 wires (NO+NC)

- ROWSHARD		Contacts	numbers	
AVAILABLE	-1	2	3	4
(NO+NC)	+	NC.	_	NO

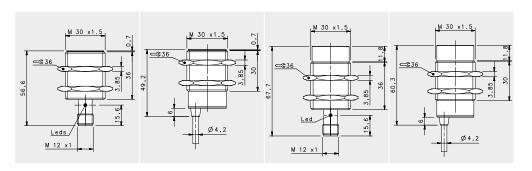




NON FLUSH

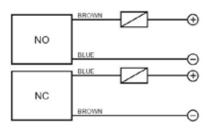
				FL	JOH	NUN	-LUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		10 mm	10 mm	15 mm	15 mm
40.201/1	PNP/NPN	, .		IS-30-A0-S2	IS-30-A0-03	IS-30-C0-S2	IS-30-C0-03
10-30 Vdc	NO-NC	4 wires	order No.	95B064490	95B064460	95B064510	95B064470
40.20141	PNP	<u>.</u> .		IS-30-A1-S2	IS-30-A1-03	IS-30-C1-S2	IS-30-C1-03
10-30 Vdc	NO	3 wires	order No.	95B061431	95B061421	95B061831	95B061821
40 2014-	PNP	2		IS-30-A2-S2	IS-30-A2-03	IS-30-C2-S2	IS-30-C2-03
10-30 Vdc	NC	3 wires	order No.	95B061451	95B061441	95B061851	95B061841
40 2014-	NPN	2		IS-30-A3-S2	IS-30-A3-03	IS-30-C3-S2	IS-30-C3-03
10-30 Vdc	NO	3 wires	order No.	95B061391	95B061381	95B061791	95B061781
10-30 Vdc	NPN	3 wires		IS-30-A4-S2	IS-30-A4-03	IS-30-C4-S2	IS-30-C4-03
10-30 Vac	NC	3 Wires	order No.	95B061411	95B061401	95B061811	95B061801
10-30 Vdc	PNP	Luiros					
10-50 Vac	NO-NC	4 wires	order No.				
10 20 1/4-	NPN	/ivaa					
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires		IS-30-A9-S2	IS-30-A9-03	IS-30-C9-S2	IS-30-C9-03
10-30 Vuc	NO-NC	2 WITES	order No.	95B064570	95B064530	95B064590	95B064550
20-250 Vac/Vdc	NO	2 wires					
20-250 Vac/ Vuc	NO	2 WITES	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-250 Vac/ Vuc	IVC	2 WITES	order No.				
20-250 Vac	NO	2/3wires					
20-250 vac	NU	2/3 WII eS	order No.				
10-30 Vdc	Analog	3 wires					
10-30 vac	0-20 mA	2 MILE2	order No.				
NAMUR amplifier	NAMUR	2 wires					
MAMOR amplifier	IVAIVIOR	2 WIIES	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Curre	nt			200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Curre	nt			> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current				< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
Voltage Drop				< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequer	ncy			300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-N
Start Up Delay				< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
-				LCP	LCP	LCP	LCP
ACTIVE FACE							
				60Nm	60Nm	60Nm	60Nm
Active face Tightening torque Weight - Cable Out	tout			60Nm	60Nm 210 g	60Nm 	60Nm 210 g

FLUSH

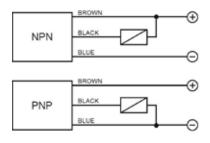


	SH	ORT	
FLU		NON F	LUSH
M12 conn	cable	M12 conn	cable
10 mm	10 mm	15 mm	15 mm
IS-30-B1-S2	IS-30-B1-03	IS-30-D1-S2	IS-30-D1-03
95B062231	95B062221	95B062631	95B062621
IS-30-B2-S2	IS-30-B2-03	IS-30-D2-S2	IS-30-D2-03
95B062251	95B062241	95B062651	95B062641
IS-30-B3-S2	IS-30-B3-03	IS-30-D3-S2	IS-30-D3-03
95B062191	95B062181	95B062591	95B062581
IS-30-B4-S2	IS-30-B4-03	IS-30-D4-S2	IS-30-D4-03
95B062211	95B062201	95B062611	95B062601
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
300 Hz	300 Hz	300 Hz	300 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
60Nm	60Nm	60Nm	60Nm
	210 g		
	-		210 g
170 g		170 g	

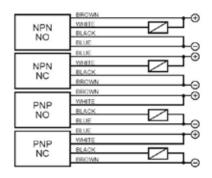
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

Available	Contacts numbers			
	1	2	3	4
NO	+		-	
NC	. 2		+	

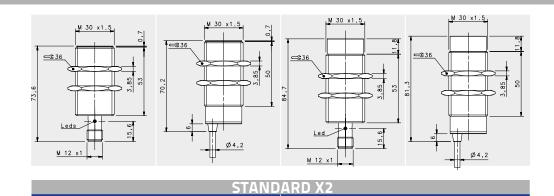
3 wires

Available		Contacts	numbers	
Available	-1	2	3	4
(NO or NC)	+		_	NO/NO

4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers			
Output	1/4 ii	2	- 3	4
NPN NO	+	NO	_	-
NPN NC	-	NC	+	-
PNP NO	+ -	+	: - -1	NO
PNP NC	-	+	+	NC

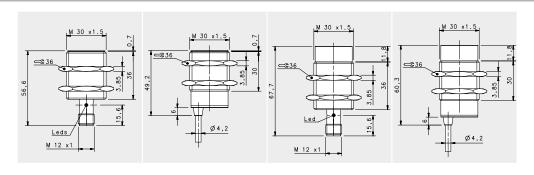




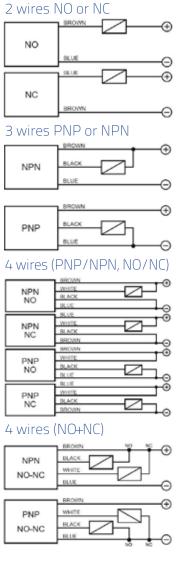
NON-FLUSH

NOMINAL SWITCHIN	IG DISTANC	E					
				15mm	15mm	20 mm	20 mm
. [PNP/NPN			IS-30-E0-S2	IS-30-E0-03	IS-30-F0-S2	IS-30-F0-03
	NO-NC	4 wires	order No.	95B067390	95B067350	95B067410	95B067370
40.2011	PNP	<u>.</u> .		IS-30-E1-S2	IS-30-E1-03	IS-30-F1-S2	IS-30-F1-03
	NO	3 wires	order No.	95B067060	95B067950	95B067990	95B068030
40 20 V4-	PNP	2		IS-30-E2-S2	IS-30-E2-03	IS-30-F2-S2	IS-30-F2-03
10-30 Vdc	NC	3 wires	order No.	95B067920	95B067960	95B068000	95B068040
10-30 Vdc	NPN	3 wires		IS-30-E3-S2	IS-30-E3-03	IS-30-F3-S2	IS-30-F3-03
10-30 vuc	NO	5 WIIES	order No.	95B067930	95B067970	95B068010	95B068050
	NPN	3 wires		IS-30-E4-S2	IS-30-E4-03	IS-30-F4-S2	IS-30-F4-03
10 30 vac	NC	J WIICS	order No.	95B067940	95B067980	95B068020	95B068060
10-30 Vdc	PNP	4 wires					
10 30 vac	NO-NC	4 WIIC3	order No.				
	NPN	4 wires					
10 30 vac	NO-NC	4 WIIC3	order No.				
10-30 Vdc	NO-NC	2 wires		IS-30-E9-S2	IS-30-E9-03	IS-30-F9-S2	IS-30-F9-03
	order No.		95B067400	95B067360	95B067420	95B067380	
20-250 Vac/Vdc N	ac/Vdc NO 2 wires						
			order No.				
20-250 Vac/Vdc N	NC	2 wires					
			order No.				
20-250 Vac	NO	2/3 wires					
			order No.				
	Analog	3 wires					
	0-20 mA		order No.				
NAMUR amplifier 1	NAMUR	2 wires					
·			order No.				
Name in a LV albana				40 30 14-1 45 (40%)	40. 20.14-1.45 (40%)	40 2014-145 (40%)	40 20 1/4- / 45 /40%)
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Current				200 mA	200 mA	200 mA	200 mA
Min. Output Current							
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop				< 6,5 V (I=100mA)	< 6,5 V (I=100mA)	< 6,5 V (I=100mA)	< 6,5 V (I=100mA)
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequency	1			200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC)
Start Up Delay				< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Protecti	ion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit		(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)		
Protection Degree				IP67	IP67	IP67	IP67
Cable Length							
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Tightening torque				60Nm	60Nm	60Nm	60Nm
Weight - Cable Output							

FLUSH



	SHO!	RT X2	
FLL	JSH	NON F	LUSH
M12 conn	cable	M12 conn	cable
15mm	15mm	20 mm	20 mm
IS-30-G1-S2	IS-30-G1-03	IS-30-H1-S2	IS-30-H1-03
95B063691	95B063681	95B063771	95B063761
IS-30-G2-S2	IS-30-G2-03	IS-30-H2-S2	IS-30-H2-03
95B063711	95B063701	95B063791	95B063781
IS-30-G3-S2	IS-30-G3-03	IS-30-H3-S2	IS-30-H3-03
95B063651	95B063641	95B063731	95B063721
IS-30-G4-S2	IS-30-G4-03	IS-30-H4-S2	IS-30-H4-03
95B063671	95B063661	95B063751	95B063741
IS-30-G5-S2	IS-30-G5-03	IS-30-H5-S2	IS-30-H5-03
95B063831	95B063821	95B064450	95B064420
IS-30-G6-S2	IS-30-G6-03	IS-30-H6-S2	IS-30-H6-03
95B064430	95B064400	95B064440	95B064410
40.2011 / 45.440%	10.20.11 / 45.(40%)	40.2011 / 45.44001	40 20 11 / 45 (40%)
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
200 Hz	200 Hz	200 Hz	200 Hz
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
	60Nm	60Nm	60Nm
60Nm			
 170 a	210 g 	170 ~	210 g
170 g		170 g	



M12 connector connections

2 wires NO or NC

Burney Brief	Contacts numbers			
AVERIADIO.	1	2	3	4
NO	+		-	
NC	-		+	

3 wires

C	ONTACT	CONFIGU	RATION	
A. or Cabita		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+	1,500,00	-	NOING

4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers				
	1	- 2	- 3	- 4	
NPN NO	+	NO:	-	-	
NPN NC	-	NC	+	-	
PNPNO	+	+	-	NO	
PNP NC		+	+	NO	

4 wires (NO+NC)

Available	Contacts numbers				
AVAILABLE	-1	2	3	4	
(NO + NC)	+	NC.	_	NO.	

STAINLESS STEEL

Stainless Steel housing

M4, M5 POM active face - M6,5, M8, M12, M18, M30 LCP active face

Standard length

Short length

Normal and double range operating distance

Operating distance 0.8 ... 20 mm

M4, M5, M6,5, M8, M12, M18, M30

Cable, M8 or M12 connector

3 wires

PNP, NPN, NO, NC

IP69K protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

"M12/18/30 models are Diversey and ECOLAB tested"

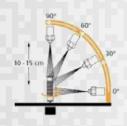








*Excluded M4 and M5 models



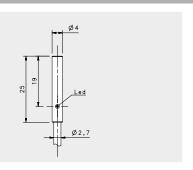
Each Stainless Steel model is IP69K tested M12/18/30 models are IP69K certified



STAINLESS STEEL

STAINLESS STEEL M4





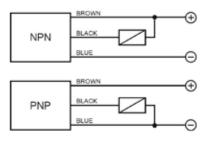
STANDARD

				FLUSH
				cable
NOMINAL SWITCH	ING DISTAN	Œ		0,8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	
10-30 Vdc	PNP NO	3 wires	order No.	IS-04-A1-03 95B061011
10-30 Vdc	PNP NC	3 wires	order No.	
10-30 Vdc	NPN NO	3 wires	order No.	IS-04-A3-03 95B061001
10-30 Vdc	NPN NC	3 wires	order No.	
10-30 Vdc	PNP NO-NC	4 wires	order No.	
10-30 Vdc	NPN NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2 wires	order No.	
20-250 Vac/Vdc	NO	2 wires	order No.	
20-250 Vac/Vdc	NC	2 wires	order No.	
20-250 Vac	NO	2/3wires	order No.	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.	
NAMUR amplifier	NAMUR	2 wires	order No.	

Nominal Voltage	10-30 Vdc (-15/10%)
Residual Ripple	< 10%
Hysteresis	< 15%
Max. Output Current	100 mA
Min. Output Current	
Residual Current	< 0,01 mA
Voltage Drop	< 1,5 V
Operation Led	Yellow
Switching Frequency	2000 Hz
Start Up Delay	
Repeatability	< 1%
Short Circuit Protection	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads
Temperature Limit	(−25 +70 °C)
Protection Degree	IP69K
Cable Length	2 m (PUR)
Cable Section	3x 0,15 mm²
Housing Material	Stainless-Steel
Active face	POM
Tightening torque	
Weight - Cable Output	50 g
Weight - Connector Output	

order No.

3 wires PNP or NPN



M83 pole



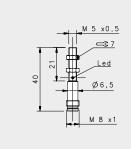
NPN/PNP

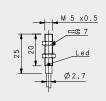
CONT	ACTS CON	FIGURATI	ON	
Available	Contacts numbers			
	1 100000	3	HAD.	

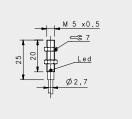
NO/NC

STAINLESS STEEL M5





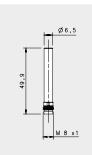


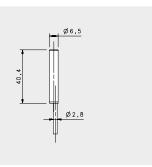


				STANDARD		STANDARD X2	
				FLU	ISH	FLUSH	
				M8 conn	cable	cable	
OMINAL SWITCHIN	IG DISTANCI	E		0,8 mm	0,8 mm	1,5 mm	
10.20.14-	0-30 Vdc PNP/NPN NO-NC 4 wire						
10-30 vac		4 wires	order No.				
10-30 Vdc	PNP	3 wires		IS-05-A1-S1	IS-05-A1-03		
10-30 vac	NO	2 MIIE2	order No.	95B061051	95B061041		
	PNP	3 wires					
	NC	2 MILE2	order No.				
	NPN	3 wires		IS-05-A3-S1	IS-05-A3-03	IS-05-E3-03	
	NO	3	order No.	95B061031	95B061021	95B065400	
	NPN	3 wires			IS-05-A4-03		
	NC	5	order No.		95B065420		
	PNP	4 wires					
NO-NC			order No.				
	NPN NO-NC	4 wires	order No				
	INO-INC		order No.				
10-30 Vdc I	NO-NC	2 wires	order No.		 		
			order NO.				
20-250 Vac/Vdc 1	NO	2 wires	order No.		 		
			order No.				
20-250 Vac/Vdc 1	NC	2 wires	order No.				
			order No.				
20-250 Vac 1	NO	2/3 wires	order No.				
	Analog		order res				
	0-20 mA	3 wires	order No.				
NAMUR amplifier I	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	
Hysteresis				< 15%	< 15%	< 15%	
Max. Output Current				100 mA	100 mA	100 mA	
Min. Output Current							
Residual Current				< 0,01 mA	< 0,01 mA	< 0,01 mA	
/oltage Drop				< 1,5V	< 1,5V	< 1,5V	
Operation Led				Yellow	Yellow	Yellow	
Switching Frequency	4			2000 Hz	2000 Hz	2000 Hz	
Start Up Delay							
Repeatability				< 1%	< 1%		
Short Circuit Protect	ion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP69K	IP69K	IP69K	
Cable Length					2 m (PUR)	2 m (PUR)	
Table Section					3x 0,15 mm²	3x 0,15 mm²	
Housing Material				Stainless-Steel	Stainless-Steel	Stainless-Steel	
Active face				POM	POM	POM	
Fightening torque				1,5 Nm	1,5 Nm	1,5 Nm	
Weight - Cable Outpu	ıt				25g	25g	
Weight - Connector O	Output			14g			

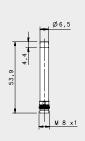
STAINLESS STEEL M6.5

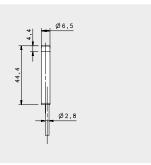






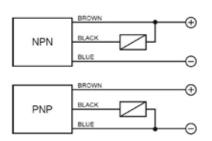
				SHORT STAINLESS STEEL		
				FLUSH		
				M8 conn	cable	
NOMINAL SWITCHING DISTANCE				1,5 mm	1,5 mm	
	PNP/NPN					
10-30 Vdc NO-NC	4 wires	order No.				
PNP	2		IS-65-M1-S1	IS-65-M1-03		
10-30 Vac	IO-30 Vdc NO	3 wires	order No.	95B066080	95B064760	
10-30 Vdc	PNP PNP	3 wires		IS-65-M2-S1	IS-65-M2-03	
NC NC	2 Miles	order No.	95B066120	95B064800		
10-30 Vdc	NPN 3 wires	3 wires		IS-65-M3-S1	IS-65-M3-03	
NU	Jc3	order No.	95B066000	95B064680		
10-30 Vdc	NC	3 wires	- uda u Nia	IS-65-M4-S1	IS-65-M4-03	
			order No.	95B066040 	95B064720 	
10-30 Vdc	PNP NO-NC	4 wires	arder No			
		order No.				
10-30 Vdc NPN NO-NC	4 wires	order No.				
			order No.			
10-30 Vdc NO-NC	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20 2501/ /1/4-	NC					
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	ıc NO 2/3\	2/3 wires				
20-230 vac	IVO	2/3 WILES	order No.			
10-30 Vdc Analog	3 wires					
	0-20 mA	J 11c3	order No.			
NAMUR amplifier	NAMUR	2 wires				
order N		order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Currei	nt			200 mA	200 mA	
Min. Output Curre						
Residual Current				< 10 mA	< 10 mA	
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Frequer	ncy			1000 Hz	1000 Hz	
Start Up Delay			< 50 ms	< 50 ms		
Repeatability			< 3%	< 3%		
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection			Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit			(-25 +70 °C)	(-25 +70 °C)		
Protection Degree			IP69K	IP69K		
Cable Length						
Cable Section				3x 0,14 mm²		
Housing Material			Stainless-Steel	Stainless-Steel		
Active face			LCP	LCP		
Tightening torque						
Weight - Cable Output					80 g	
Weight - Connector Output				40 g		





SHORT STA	INI ESS STEEL						
	SHORT STAINLESS STEEL NON FLUSH						
M8 conn cable							
2 mm	2 mm						
IS-65-N1-S1	IS-65-N1-03						
95B066240	95B064920						
IS-65-N2-S1	IS-65-N2-03						
95B066280	95B064960						
IS-65-N3-S1	IS-65-N3-03						
95B066160	95B064840						
IS-65-N4-S1	IS-65-N4-03						
95B066200	95B064880						
							
							
							
							
							
							
							
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)						
< 10%	< 10%						
< 10%	< 10%						
200 mA	200 mA						
200 THA	200 111A						
< 10 mA	< 10 mA						
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)						
Yellow	Yellow						
1000 Hz	1000 Hz						
< 50 ms	< 50 ms						
< 3%	< 3%						
Present (self-resetting)	Present (self-resetting)						
Against polarity reversal inductive loads	Against polarity reversal inductive loads						
(−25 +70 °C)	(-25 +70 °C)						
IP69K	IP69K						
	3x 0,14 mm²						
Stainless-Steel	Stainless-Steel						
LCP	LCP						
	80 g						
40 g							
40 €							

3 wires PNP or NPN



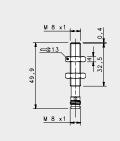
M8 3 pole

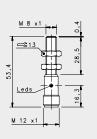


CONTACTS CONFIGURATION						
Available	Contacts numbers					
	BROWN	3 BUSE	BLAC			
NPN/PNP	+	-	NON			

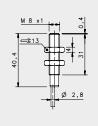
STAINLESS STEEL M8



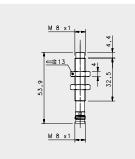


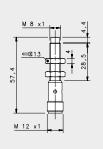


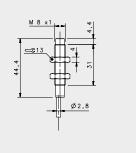
SHORT STAINLESS STEEL



					FLUSH	
				M8 conn	M12 conn	cable
NOMINAL SWITCH	IINC DICTANI	CE		1,5 mm	1,5 mm	1,5 mm
NOMINAL SWITCH		LE		mm c,1		mm e,1
10-30 Vdc	10-30 Vdc PNP/NPN NO-NC 4 wires		order No.		 	
	_	order No.		 IS-08-M1-S1	 IS-08-M1-S2	IS-08-M1-03
10-30 Vdc	dc PNP 3 wires order No.		order No.	95B066870	95B066600	95B066380
	1		order No.	IS-08-M2-S1	IS-08-M2-S2	IS-08-M2-03
10-30 Vdc	PNP NC	3 wires	audau Na	95B066900	95B066630	
	NPN		order No.	IS-08-M3-S1	IS-08-M3-S2	95B066600 IS-08-M3-03
10-30 Vdc	NO	3 wires	order No.	95B066820	95B066540	95B066340
	-		order No.	IS-08-M4-S1	IS-08-M4-S2	IS-08-M4-03
10-30 Vdc	NPN NC	3 wires	order No.	95B066840	95B066570	95B066360
	PNP		order No.	338000840		
10-30 Vdc	NO-NC	4 wires	order No.			
	NPN		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
			Order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
			Order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
			Order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
			Order 140.			
20-250 Vac	NO	2/3 wires	order No.			
	Analog		Order No.			
10-30 Vdc	0-20 mA	3 wires	order No.			
			0.42.110.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%
				< 10%	< 10%	< 10%
Hysteresis	_1			200 mA		
Max. Output Curre				200 IIIA	200 mA	200 mA
Min. Output Curre	Πτ					
Residual Current				< 10 mA	< 10 mA	< 10 mA
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led				Yellow	Yellow	Yellow
Switching Frequer	тсу			1000 Hz	1000 Hz	1000 Hz
Start Up Delay				< 50 ms	< 50 ms	< 50 ms
Repeatability				< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP69K	IP69K	IP69K
Table Length						
Table Section						3x 0,14 mm²
Housing Material				Stainless-Steel	Stainless-Steel	Stainless-Steel
Active face				LCP	LCP	LCP
Fightening torque				4Nm	4Nm	4Nm
Weight - Cable Out	nut					80 g
Weight - Connecto				35g	55g	
ACIBINE CONTINECTO	Julput			J-7g	عرد	

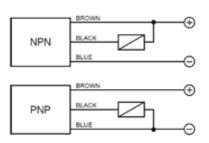






SHORT STAINLESS STEEL								
	NON FLUSH							
M8 conn	M12 conn	cable						
2 mm	2 mm	2 mm						
IS-08-N1-S1	IS-08-N1-S2	IS-08-N1-03						
95B066980	95B066710	95B066490						
IS-08-N2-S1	IS-08-N2-S2	IS-08-N2-03						
95B067010	95B066730	95B066510						
IS-08-N3-S1	IS-08-N3-S2	IS-08-N3-03						
95B066930	95B066660	95B066440						
IS-08-N4-S1	IS-08-N4-S2	IS-08-N4-03						
95B066950	95B066680	95B066470						
10 20 Vdc/ 15/10%	10. 20 Vdc / 15 /10%\	10.30 \\da_\ 15 \\10%\						
10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%) < 10%						
< 10%	< 10%	< 10%						
200 mA	200 mA	200 mA						
200 IIIA 	200 IIIA	200 IIIA 						
< 10 mA	< 10 mA	< 10 mA						
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)						
Yellow 1000 Hz	Yellow 1000 Hz	Yellow 1000 Hz						
	< 50 ms							
< 50 ms		< 50 ms						
< 3%	< 3%	< 3%						
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)						
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads						
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)						
IP69K	IP69K	IP69K						
		3x 0,14 mm²						
Stainless-Steel	Stainless-Steel	Stainless-Steel						
LCP	LCP	LCP						
4Nm	4Nm	4Nm						
		80 g						
35g	55g							

3 wires PNP or NPN



M12 3 pole



No. of Labora	Contacts numbers			
Available	1	2	3	4
(NO or NC)	+			NO/NO

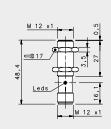
M8 3 pole

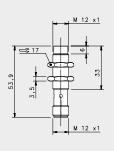


CONT	ACTS CON	FIGURAT	ION		
Service of	Contacts numbers				
vallable	1 BROWN	3 BUE	BLACK		
PN/PNP	4	1823	NOINC		

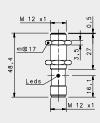
STAINLESS STEEL M12

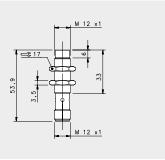






				SHORT STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
OMINAL SWITCH	ING DISTANC	E		2 mm	4 mm	
	PNP/NPN					
0-30 Vdc	NO-NC	4 wires	order No.			
	PNP			IS-12-M1-S2	IS-12-N1-S2	
0-30 Vdc	NO	3 wires	order No.	95B060240	95B060280	
0.20.1/4-	PNP	2		IS-12-M2-S2	IS-12-N2-S2	
0-30 Vdc	NC	3 wires	order No.	95B060250	95B060290	
0-30 Vdc	NPN	3 wires		IS-12-M3-S2	IS-12-N3-S2	
0-30 Vuc	NO	2 MILES	order No.	95B060260	95B060300	
0-30 Vdc	NPN	3 wires		IS-12-M4-S2	IS-12-N4-S2	
0-30 vac	NC	2 MILE2	order No.	95B060270	95B060310	
0-30 Vdc	PNP	4 wires				
5 50 Vac	NO-NC	7 111103	order No.			
0-30 Vdc	NPN	4 wires				
	NO-NC		order No.			
0-30 Vdc	NO-NC	2 wires				
	· · · ·		order No.			
0-250 Vac/Vdc	NO	2 wires				
			order No.			
0-250 Vac/Vdc	NC	2 wires				
			order No.			
0-250 Vac	NO	2/3 wires	and an Na			
			order No.			
0-30 Vdc	Analog 0-20 mA	3 wires	order No.			
	0-20 IIIA		order No.			
IAMUR amplifier	NAMUR	2 wires	order No.			
			order No.			
ominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
esidual Ripple				< 10%	< 10%	
ysteresis				< 10%	< 10%	
lax. Output Currer	h+			200 mA	200 mA	
lin. Output Currei				200 IIIA	200 HIA	
esidual Current	iii.			< 10 mA	< 10 mA	
oltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	
peration Led				Yellow	Yellow	
•	.61			1000 Hz	1000 Hz	
witching Frequen	icy			< 50 ms	< 50 ms	
tart Up Delay				< 3%	< 3%	
epeatability	ction					
hort Circuit Prote	CUUII			Present (self-resetting)	Present (self-resetting)	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
rotection Degree				IP69K	IP69K	
able Length						
able Section						
ousing Material				Stainless-Steel	Stainless-Steel	
ctive face				LCP	LCP	
ightening torque				10Nm	10Nm	
Veight - Cable Out	put					
Veight - Connector	Output			60 g	60 g	





SHOPT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
4 mm	8 mm
 IS-12-01-52	 IS-12-P1-S2
95B060000	95B060040
IS-12-02-S2	IS-12-P2-S2
95B060010	95B060050
IS-12-03-S2	IS-12-P3-S2
95B060020	95B060060
IS-12-04-S2	IS-12-P4-S2
95B060030	95B060070
	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
500 Hz	500 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(−25 +70 °C) IP69K	(−25 +70 °C) IP69K
Stainless-Steel	Stainless-Steel
LCP LCP	LCP LCP
10Nm	10Nm
60 g	60 g
· - 0	0

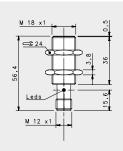
M12 3 pole

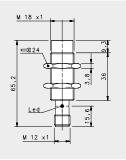


CONTACTS CONFIGURATION						
Rable	14/4-1	Contacts numbers	1. 10			
lable	1	2	3	4		
or NC)	+		520	NO/NC		

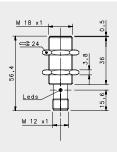
STAINLESS STEEL M18

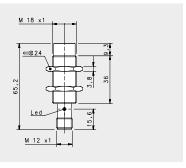






				SHORT STAINLESS STEEL			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITCH	IING DISTAN	CE		5 mm	8 mm		
	PNP/NPN	I					
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	PNP	3 wires		IS-18-M1-S2	IS-18-N1-S2		
10-30 Vuc	NO	3 WIIES	order No.	95B060320	95B060360		
10-30 Vdc	PNP	3 wires		IS-18-M2-S2	IS-18-N2-S2		
	NC		order No.	95B060330	95B060370		
10-30 Vdc	NPN	3 wires		IS-18-M3-S2	IS-18-N3-S2		
	NO		order No.	95B060340	95B060380		
10-30 Vdc	NPN NC	3 wires	audau Na	IS-18-M4-S2 95B060350	IS-18-N4-S2 95B060390		
			order No.	958060350	958060390		
10-30 Vdc	PNP NO-NC	4 wires	order No.				
	NPN		order No.				
10-30 Vdc	NO-NC	4 wires	order No.				
			0.00.110.				
10-30 Vdc	NO-NC	2 wires	order No.				
20. 250 1/ /1/4-	NO	2					
20-250 Vac/Vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-250 Vac/ Vuc	IVC	2 WITES	order No.				
20-250 Vac	NO	2/3wires					
20 250 vac		2/ J WIICS	order No.				
10-30 Vdc	Analog	3 wires					
	0-20 mA		order No.				
NAMUR amplifier	NAMUR	2 wires	N -				
			order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
Residual Ripple				< 10%	< 10%		
Hysteresis				< 10%	< 10%		
Max. Output Currer	nt			200 mA	200 mA		
Min. Output Curre							
Residual Current				< 10 mA	< 10 mA		
Voltage Drop				< 1,8 V (I=100mA)	< 1,8 V (l=100mA)		
Operation Led				Yellow	Yellow		
Switching Frequer	ncv			1000 Hz	1000 Hz		
Start Up Delay	- /			< 50 ms	< 50 ms		
Repeatability				< 3%	< 3%		
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)		
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25 +70 °C)	(−25 +70 °C)		
Protection Degree				IP69K	IP69K		
Cable Length							
Cable Section							
Housing Material				Stainless-Steel	Stainless-Steel		
Active face				LCP	LCP		
Tightening torque				30Nm	30Nm		
Weight - Cable Out	put						
Weight - Connecto				95g	95g		





SHORT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
8 mm	14 mm
 IC 40 04 C2	 IC 40 D4 C2
IS-18-01-S2 95B060080	IS-18-P1-S2 95B060120
IS-18-02-52 95B060090	IS-18-P2-S2 95B060130
IS-18-03-S2	IS-18-P3-S2
95B060100	95B060140
IS-18-04-S2	IS-18-P4-S2
95B060110	95B060150
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (l=100mA) Yellow	< 1,2 V (I=100mA) Yellow
200 Hz	200 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
30Nm	30Nm
95g	95g
	22g

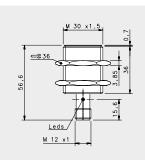
M12 3 pole

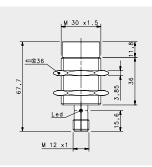


CONTACTS CONFIGURATION					
Available	Contacts numbers				
Available	1	2	3	4	
(NO or NC)	+		_ =	NO/NC	

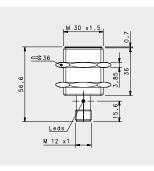
STAINLESS STEEL M30

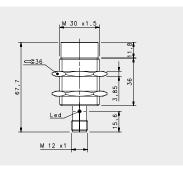






				SHORT STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12	
OMINAL SWITCH	ING DISTANC	E		10 mm	15 mm	
	PNP/NPN					
0-30 Vdc	NO-NC	4 wires	order No.			
	PNP			IS-30-M1-S2	IS-30-N1-S2	
0-30 Vdc	NO	3 wires	order No.	95B060400	95B060440	
0.20141	PNP	<u>.</u>		IS-30-M2-S2	IS-30-N2-S2	
0-30 Vdc	NC	3 wires	order No.	95B060410	95B060450	
0-30 Vdc	NPN	3 wires		IS-30-M3-S2	IS-30-N3-S2	
0-30 vuc	NO	2 Miles	order No.	95B060420	95B060460	
0-30 Vdc	NPN	3 wires		IS-30-M4-S2	IS-30-N4-S2	
0-30 vac	NC	2 MILE2	order No.	95B060430	95B060470	
0-30 Vdc	PNP	4 wires				
0 30 vac	NO-NC	4 WIIC3	order No.			
0-30 Vdc	NPN	4 wires				
	NO-NC		order No.			
0-30 Vdc	NO-NC	2 wires				
			order No.			
0-250 Vac/Vdc	NO	2 wires				
			order No.			
0-250 Vac/Vdc	NC	2 wires	and an Na			
			order No.		 	
0-250 Vac	NO	2/3 wires	audau Na			
	Analan		order No.		 	
0-30 Vdc	Analog 0-20 mA	3 wires	order No.			
	0 ZOTTA		order No.			
IAMUR amplifier	NAMUR	2 wires	order No.			
			oraci ivo.			
Iominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
esidual Ripple				< 10%	< 10%	
ysteresis				< 10%	< 10%	
lax. Output Curren	nt			200 mA	200 mA	
lin. Output Currer						
esidual Current				< 10 mA	< 10 mA	
oltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	
peration Led				Yellow	Yellow	
witching Frequen	ıcv			300 Hz	300 Hz	
tart Up Delay	icy			< 50 ms	< 50 ms	
epeatability				< 3%	< 3%	
hort Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	
non circuit Prote	CUOII					
Electric Protection			Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit			(-25 +70 °C)	(-25 +70 °C)		
rotection Degree				IP69K	IP69K	
able Length						
able Section						
ousing Material				Stainless-Steel	Stainless-Steel	
ctive face				LCP	LCP	
ightening torque				60Nm	60Nm	
/eight - Cable Out						
Veight - Connector	Output			170 g	170 g	





SHORT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
15 mm	20 mm
	2011111
IS-30-01-52	IS-30-P1-S2
958060160	95B060200
IS-30-02-S2	IS-30-P2-S2
95B060170	95B060210
IS-30-03-S2	IS-30-P3-S2
95B060180	95B060220
IS-30-04-S2	IS-30-P4-S2
95B060190	95B060230
	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
100 Hz	100 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
	_
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
60Nm	60Nm
170 g	170 g

M123 pole



C	ONTACT	CONFIGU	RATION		
Available	Contacts numbers				
Available	1	2	3	4	
(NO or NC)	+		_ =	NO/NC	

METAL FACE

Stainless Steel housing Stainless Steel AISI 303 active face Standard length

2 ... 8 mm

M12, M18

M12 connector

3 wires

PNP, NO

IP67 protection

REDUCTION FACTOR

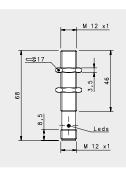
	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

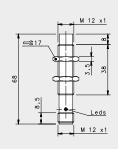




METAL FACE M12



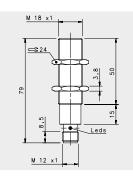


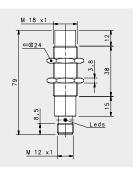


				METAL FACE		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	HING DISTANC	F		2 mm	4 mm	
VOIVIIVAL SVVITCI	PNP/NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
	PNP			IS-12-I1-S2	IS-12-L1-S2	
10-30 Vdc	NO	3 wires	order No.	95B065340	95B063871	
10-30 Vdc	PNP	3 wires				
10 30 vac	NC	J WIICS	order No.			
10-30 Vdc	NPN	3 wires				
	NO NDN		order No.		 	
10-30 Vdc	NPN NC	3 wires	order No.		 	
	PNP		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
40.20141	NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires				
10 30 vac	NO NC	2 WIICS	order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC	2 wires	audau Na			
			order No.		 	
20-250 Vac	NO	2/3 wires	order No.			
	Analog		oraci ivo.			
10-30 Vdc	0-20 mA	3 wires	order No.			
NIANALID III:	NAMUD	2				
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Curre				200 mA	200 mA	
Min. Output Curre	ent					
Residual Current				< 0,01 mA	< 0,01 mA	
Voltage Drop Operation Led				< 1,5 V (I=100mA) Present	< 1,5 V (I=100mA) Present	
Switching Freque	ncv			2000 Hz	1000 Hz	
Start Up Delay	iicy					
Repeatability				< 1%	< 1%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				Stainless Steel AISI 303	Stainless Steel AISI 303	
Tightening torque				10Nm	10Nm	
Weight - Cable Out	tput					
Weight - Connecto	r Output			30 g	30 g	

METAL FACE M18







				METAL FACE		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	IING DISTANO	CE		5 mm	8 mm	
10-30 Vdc	PNP/NPN	4 wires				
10 30 Vac	NO-NC	4 WIIC3	order No.			
10-30 Vdc	PNP NO	3 wires	order No.	IS-18-I1-S2 95B065350	IS-18-L1-S2 95B063881	
	PNP					
10-30 Vdc	NC	3 wires	order No.			
10-30 Vdc	NPN	3 wires				
10-30 Vuc	NO	5 WILES	order No.			
10-30 Vdc	NPN	3 wires				
	NC	3	order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.		 	
	NPN		0.00.110.			
10-30 Vdc	NO-NC	4 wires	order No.			
10 20 1/4-	NO NC	2				
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires				
20 250 1407 140	110	2 Wiles	order No.			
20-250 Vac/Vdc	NC	2 wires				
			order No.			
20-250 Vac	NO	2/3 wires	audau Na			
	0		order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
	0 20		oraci ivo.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Currer				200 mA	200 mA	
Min. Output Curre	nt			> 1,6 mA	> 1,6 mA	
Residual Current				< 0,01 mA	< 0,01 mA	
Voltage Drop				< 1,5 V	< 1,5 V	
Operation Led				Present	Present	
Switching Frequer	icy			1000 Hz	500 Hz 	
Start Up Delay				 < 1%	 < 1%	
Repeatability Short Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal	
				(-25 +70 °C)	inductive loads (-25 +70 °C)	
Temperature Limit Protection Degree				IP67	(=25 +70 °C)	
Cable Length						
Cable Section						
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				Stainless Steel AISI 303	Stainless Steel AISI 303	
Tightening torque				10Nm	10Nm	
Weight - Cable Out	put					
Weight - Connector				95g	95g	

WELD FIELD IMMUNE

Stainless Steel housing

PTFE active face

Standard length

Operating distance 2 ... 8 mm

M12, M18

M12 connector

3 wires

PNP, NO

IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

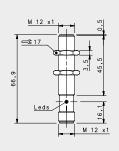


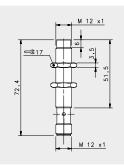


WELD FIELD IMMUNE

WELD FIELD IMMUNE M12





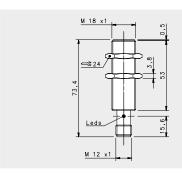


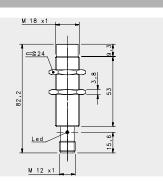
FIELD IMMUNE STAINLESS STEEL

				FLUSH	NON FLUSH						
				M12 conn	M12 conn						
NOMINAL SWITCH	HING DISTANC	Œ		2 mm	4 mm						
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.								
	PNP		order No.	IS-F12-S1-S2	IS-F12-T1-S2						
10-30 Vdc	NO	3 wires	order No.	95B065360	95B065370						
	PNP		order No.								
10-30 Vdc	NC	3 wires	order No.								
	NPN										
10-30 Vdc	NO	3 wires	order No.								
10-30 Vdc	NPN	3 wires									
10-50 Vac	NC	5 WILES	order No.								
10-30 Vdc	PNP	4 wires									
10 30 vac	NO-NC	4 0011 C3	order No.								
10-30 Vdc	NPN	4 wires									
	NO-NC		order No.								
10-30 Vdc	NO-NC	2 wires	and an Na								
			order No.								
20-250 Vac/Vdc	NO	2 wires	order No.								
			order No.								
20-250 Vac/Vdc	NC	2 wires	order No.								
			oraci itoi								
20-250 Vac	NO	2/3 wires	order No.								
40.701/4-	Analog	_ ·	2	2	2	2	2	2 mines			
10-30 Vdc	0-20 mA	3 wires	order No.								
NAMUR amplifier	NAMUR	2 wires									
TVANION amplifici	IVAIVIOIT	2 WIICS	order No.								
Nominal Voltage				10-30 Vdc	10-30 Vdc						
Residual Ripple				< 10%	< 10%						
Hysteresis				< 15%	< 15%						
Max. Output Curre	nt			200 mA	200 mA						
Min. Output Curre				< 10mA	< 10mA						
Residual Current	HIL			< 0,1 mA	< 0,1 mA						
Voltage Drop				< 1,5V	< 1,5V						
Operation Led				Present	Present						
Switching Freque	ncv			2000 Hz	1000 Hz						
Start Up Delay	iicy			< 0,1 ms	< 0,1 ms						
Repeatability				< 1%	< 1%						
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)						
				Against polarity reversal	Against polarity reversal						
Electric Protection	1			inductive loads	inductive loads						
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)						
Protection Degree				IP67	IP67						
Cable Length											
Cable Section											
Housing Material				Stainless-Steel	Stainless-Steel						
Active face				PTFE	PTFE						
Tightening torque				10 Nm	10 Nm						
Weight - Cable Out	tput										
Weight - Connecto	r Output			25g	23g						

WELD FIELD IMMUNE M18







				FIELD IMMUNE S	STAINLESS STEEL
				FLUSH	NON FLUSH
				M12 conn	M12 conn
OMINAL SWITCH	IING DISTANC	E		5 mm	8 mm
	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
	PNP			IS-F18-S1-S2	IS-F18-T1-S2
0-30 Vdc	NO	3 wires	order No.	95B065380	95B065390
	PNP				
0-30 Vdc	NC	3 wires	order No.		
0.20141	NPN	<u>.</u>			
0-30 Vdc	NO	3 wires	order No.		
0 30 1/4-	NPN	2			
0-30 Vdc	NC	3 wires	order No.		
0.207/4-	PNP	/ivaa			
0-30 Vdc	NO-NC	4 wires	order No.		
0-30 Vdc	NPN	4 wires			
0-30 vac	NO-NC	4 WITES	order No.		
0-30 Vdc	NO-NC	2 wires			
o Jo vac	NO-NC	Z WIIED	order No.		
.0-250 Vac/Vdc	NO	2 wires			
.0-230 vac/ vac	NO	2 WIIES	order No.		
.0-250 Vac/Vdc	NC	2 wires			
.o 250 vac/ vac	110	2 001103	order No.		
0-250 Vac	NO	2/3 wires			
230 740		2/3 111103	order No.		
0-30 Vdc	Analog	3 wires			
	0-20 mA	5	order No.		
IAMUR amplifier	NAMUR	2 wires			
<u>'</u>			order No.		
Iominal Voltage				10-30 Vdc	10-30 Vdc
Residual Ripple				< 10%	< 10%
lysteresis				< 15%	< 15%
Лах. Output Curre	nt			200 mA	200 mA
1in. Output Curre	nt			< 10mA	< 10mA
Residual Current				< 0,1 mA	< 0,1 mA
oltage Drop				< 1,5V	< 1,5V
peration Led				Present	Present
witching Frequer	ncy			1000 Hz	500 Hz
tart Up Delay	•			< 0,2 ms	< 0,5 ms
Repeatability				< 1%	< 1%
hort Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
rotection Degree				(-25 +70 °C) IP67	(-25 +70 °C)
_					1PO/
able Length					
able Section				 Chairless Charl	Chairless Charl
lousing Material				Stainless-Steel	Stainless-Steel
ctive face				PTFE	PTFE
ightening torque				30 Nm	30 Nm
Veight - Cable Out					
Weight - Connecto	r Uutput			94g	91g

INDUCTIVE AC

Nickel-plated Brass housing PA 16 active face Standard length Operating distance 2 ... 10 mm M12, M18, M30 cable or M12 connector 20+250 Vac (50,60 Hz) 2 or 3 wires NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,30,45	0,61	0,250,45	0,350,5

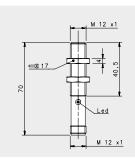


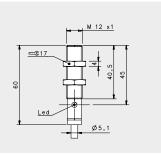




INDUCTIVE AC M12



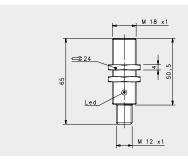


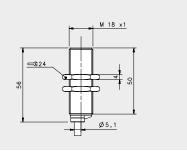


				STANDARD VAC		
				FLL	JSH	
				M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		2 mm	2 mm	
NOMINAL SWITE	PNP/NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
	PNP		0.00.100.			
10-30 Vdc	NO NO	3 wires	order No.			
	PNP					
10-30 Vdc	NC	3 wires	order No.			
40.2014	NPN	. .				
10-30 Vdc	NO	3 wires	order No.			
10-30 Vdc	NPN	2ivaa				
10-30 Vuc	NC	3 wires	order No.			
10-30 Vdc	PNP	4 wires				
10-30 Vac	NO-NC	4 WIIES	order No.			
10-30 Vdc	NPN	4 wires				
10-30 vac	NO-NC	4 WIICS	order No.			
10-30 Vdc	NO-NC	2 wires				
10 30 vac	NO NC	2 WIIC3	order No.			
20-250 Vac/Vdc	NO	2 wires				
20 250 140, 140		2 11	order No.			
20-250 Vac/Vdc	NC	2 wires				
20 230 140, 140		2 11	order No.			
20-250 Vac	NO	2/3 wires		IS-12-A15-S2	IS-12-A15-03	
			order No.	95B060690	95B060680	
10-30 Vdc	Analog 0-20 mA	3 wires				
	0-20 MA		order No.			
NAMUR amplifier	NAMUR	2 wires	d NI -			
			order No.			
Naminal Valtage				20, 250 Vac (50 50 Ha)	20+250 Vac (50,60 Hz)	
Nominal Voltage				20+250 Vac (50,60 Hz) < 10%	20+250 Vac (50,60 Hz) < 10%	
Residual Ripple				< 10%	< 10%	
Hysteresis	-1					
Max. Output Curre				500 mA, inrush:1,5A	500 mA, inrush:1,5A	
Min. Output Curre	ΠT			20 mA	20 mA	
Residual Current				< 0,7 mA	< 0,7 mA	
Voltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Frequer	тсу			25 Hz	25 Hz	
Start Up Delay				< 300 ms	< 300 ms	
Repeatability				5%	5%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length					2 m	
Cable Section					2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	
Active face				PA 16	PA 16	
Tightening torque				17Nm	17Nm	
Weight - Cable Out					145g	
Weight - Connecto	r Output			95g		

INDUCTIVE AC M18



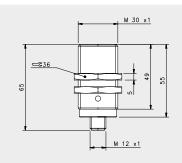




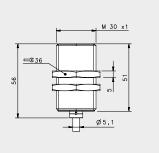
					ARD VAC
				M12 conn	cable
IOMINAL SWITCH	ING DISTANC	_		5 mm	5 mm
OMINAL SWITCH					
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.		
10-30 Vdc	PNP NC	3 wires	order No.		
0-30 Vdc	NPN NO	3 wires	order No.		
10-30 Vdc	NPN	3 wires			
10-30 Vdc	NC PNP	4 wires	order No.		
	NO-NC NPN		order No.		
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3 wires		IS-18-A15-S2	IS-18-A15-03
	Analog		order No.	95B060780 	95B060770
0-30 Vdc	0-20 mA	3 wires	order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
				20 2501/ (50 50 11)	20 250 // (50 50 //)
Iominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
esidual Ripple				< 10%	< 10%
lysteresis				< 10%	< 10%
Max. Output Currer	nt			500 mA, inrush:1,5A	500 mA, inrush:1,5A
lin. Output Curre	nt			20 mA	20 mA
esidual Current				< 0,7 mA	< 0,7 mA
oltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)
peration Led				Yellow	Yellow
witching Frequen	251			25 Hz	25 Hz
_	icy			< 300 ms	< 300 ms
tart Up Delay					
epeatability				5%	5%
hort Circuit Prote lectric Protection				Present (self-resetting) Against polarity reversal	Present (self-resetting) Against polarity reversal
				inductive loads	inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
rotection Degree				IP67	IP67
able Length					2 m
able Section					2 x 0,25 mm²
lousing Material				Nickel-plated brass	Nickel-plated brass
ctive face				PA 16	PA 16
ightening torque				40Nm	40Nm
Weight - Cable Out	put				145g
Weight - Connector				95g	

INDUCTIVE AC M30



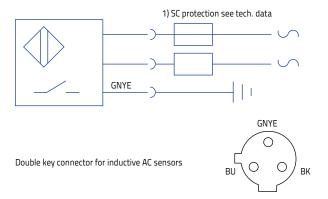


STANDARD VAC



				FLU	JSH
				M12 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		10 mm	10 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.		
10-30 Vdc	PNP NC	3 wires			
10-30 Vdc	NPN	3 wires	order No.		
10-30 Vdc	NO NPN	3 wires	order No.		
10-50 Vuc	NC	5 WIIES	order No.		
10-30 Vdc	PNP NO-NC	4 wires	order No.		
10-30 Vdc	NPN NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires			
			order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3 wires		IS-30-A15-S2	IS-30-A15-03
20-250 Vac	INO	2/3 WIIES	order No.	95B060820	95B060810
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
			'		
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
Residual Ripple				< 10%	< 10%
Hysteresis				< 10%	< 10%
Max. Output Curre				500 mA, inrush:1,5A	500 mA, inrush:1,5A
Min. Output Curre	nt			20 mA	20 mA
Residual Current				< 0,7 mA	< 0,7 mA
Voltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)
Operation Led				Yellow	Yellow
Switching Frequen	ncy			25 Hz	25 Hz
Start Up Delay				< 300 ms	< 300 ms
Repeatability				5%	5%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					2 m
Cable Section					2 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass
Active face				PA 16	PA 16
Tightening torque				70Nm	70Nm
Weight - Cable Out	nut				145g
Weight - Connecto	•			95g	
				226	

INDUCTIVE AC



NAMUR

Stainless Steel housing LCP active face Short length Operating distance 0.8 ... 15 mm M5, M8, M12, M30 Cable, M8 or M12 connector 2 wires IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7



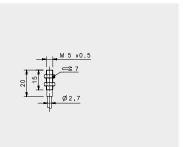




M12/18/30 FLUSH models are ATEX certified II3G EX nA II T6 113D EX tD A22 IP67 T85°C







2000 Hz

< 10 ms

Present (self-resetting)
Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP67

2 m (PVC)

2x 0,15 mm²

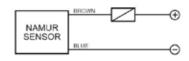
Stainless-Steel LCP

1,5Nm

25g

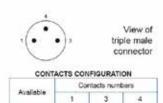
				NAMUR
				FLUSH
				cable
NOMINAL SWITCH	IING DISTAN	CF		0,8 mm
	PNP/NPN	<u>-</u>		
10-30 Vdc	NO-NC	4 wires	order No.	
10-30 Vdc	PNP NO	3 wires	order No.	
10-30 Vdc	PNP NC	3 wires	order No.	
10-30 Vdc	NPN NO	3 wires	order No.	
10-30 Vdc	NPN NC	3 wires	order No.	
10-30 Vdc	PNP NO-NC	4 wires	order No.	
10-30 Vdc	NPN NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2 wires	order No.	
20-250 Vac/Vdc	NO	2 wires	order No.	
20-250 Vac/Vdc	NC	2 wires	order No.	
20-250 Vac	NO	2/3 wires	order No.	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.	
NAMUR amplifier	NAMUR	2 wires	order No.	IS-05-A20-03 95B065410
Nominal Voltage				6+ 12 V DC
Residual Ripple				
Hysteresis				< 10%
Max. Output Currer	nt			< 3 mA (metal absent)
Min. Output Curre	nt			< 1 mA (metal present)
Residual Current				

2 wires NAMUR



M8 2 wires NAMUR

NAMUR



Voltage Drop

Operation Led
Switching Frequency

Start Up Delay

Short Circuit Protection

Electric Protection

Temperature Limit

Protection Degree

Housing Material

Weight - Cable Output

Weight - Connector Output

Cable Length

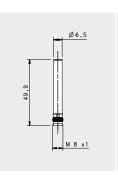
Cable Section

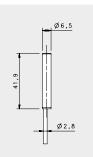
Active face Tightening torque

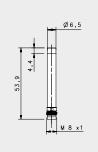
Repeatability

NAMUR M6,5

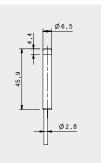






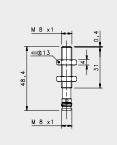


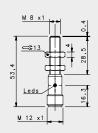
NAMUR

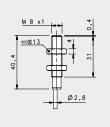


				FLU	ISH	NON I	LUSH
				M8 conn	cable	M8 conn	cable
IOMINAL SWITCH	IING DISTANO	Œ		1 mm	1 mm	2 mm	2 mm
10.201/1	PNP/NPN						
10-30 Vdc	NO-NC	4 wires	order No.				
10 20 1/4-	PNP	2					
10-30 Vdc	NO	3 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 Vuc	NC	2 Miles	order No.				
10-30 Vdc	NPN	3 wires					
10 30 vac	NO	J WIICS	order No.				
10-30 Vdc	NPN	3 wires					
	NC		order No.				
10-30 Vdc	PNP	4 wires					
	NO-NC		order No.				
10-30 Vdc	NPN NO-NC	4 wires					
	INO-INC		order No.				
10-30 Vdc	NO-NC	2 wires	order No.				
			order No.				
20-250 Vac/Vdc	NO	2 wires	order No.				
			order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
			order No.				
20-250 Vac	NO	2/3 wires	order No.				
	Analog						
10-30 Vdc	0-20 mA	3 wires	order No.				
				IS-65-A20-S1	IS-65-A20-03	IS-65-C20-S1	IS-65-C20-03
NAMUR amplifier	NAMUR	2 wires	order No.	95B066310	95B066290	95B066320	95B066300
Nominal Voltage				7,7 + 9 V DC			
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Currer	nt			< 3 mA (metal absent)			
Min. Output Curre	nt			< 1 mA (metal present)			
Residual Current							
Voltage Drop							
Operation Led							
Switching Frequer	ncy			2000 Hz	2000 Hz	2000 Hz	2000 Hz
Start Up Delay							
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	ı			Against polarity reversal inductive loads			
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2x 0,25 mm²		2 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Weight - Cable Out	put				80 g		80 g
Weight - Connecto	r Output			40 g		40 g	

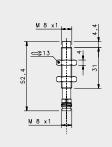


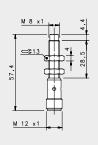


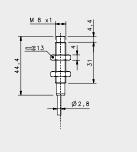




					NAMUR				
					FLUSH				
				M8 conn	M12 conn	cable			
OMINAL SWITCH	ING DISTANC	Œ		1 mm	1 mm	1 mm			
0.207/4-	PNP/NPN	/iva =							
0-30 Vdc	NO-NC	4 wires	order No.						
0-30 Vdc	PNP	3 wires							
0-30 Vuc	NO	2 MILES	order No.						
0-30 Vdc	PNP	3 wires							
	NC	5 Wiles	order No.						
0-30 Vdc	NPN	3 wires							
	NO		order No.						
0-30 Vdc	NPN NC	3 wires	N -						
			order No.						
0-30 Vdc	PNP NO-NC	4 wires	order No.						
			order No.						
0-30 Vdc	NPN NO-NC	4 wires	order No.						
			order ivo.						
0-30 Vdc	NO-NC	2 wires	order No.						
0-250 Vac/Vdc	NO	2 wires	order No.						
	NC	<u>.</u>							
:0-250 Vac/Vdc	NC	2 wires	order No.						
0.250.1/	NO	2/2							
0-250 Vac	NO	2/3 wires	order No.						
0-30 Vdc	Analog	3 wires							
0-30 vac	0-20 mA	2 MILES	order No.						
JAMUR amplifier	NAMUR	2 wires	2 wires	2 wires	IUR 2 wires		IS-08-A20-S1	IS-08-A20-S2	S-08-A20-03
v anorampinier	TW/ IIIVIOIT	2 Wiles	order No.	95B066780	95B066760	95B066740			
Iominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC			
Residual Ripple				< 10%	< 10%	< 10%			
lysteresis				< 10%	< 10%	< 10%			
Лах. Output Currei				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)			
Ain. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)			
Residual Current									
oltage Drop									
peration Led									
witching Frequer	ncy			2000 Hz	2000 Hz	2000 Hz			
tart Up Delay									
Repeatability				< 3%	< 3%	< 3%			
hort Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)			
lectric Protection	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads			
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)			
rotection Degree				IP67	IP67	IP67			
able Length						2 m			
able Section						2x 0,25 mm²			
ousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass			
ctive face				LCP	LCP	LCP			
ightening torque				4Nm	4Nm	4Nm			
leight - Cable Out	put					80 g			
Weight - Connecto				35g	55g				

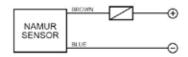






NAMUR								
	NON FLUSH							
M8 conn	M12 conn	cable						
2 mm	2 mm	2 mm						
IS-08-C20-S1	IS-08-C20-S2	IS-08-C20-03						
95B066790	95B066770	95B066750						
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC						
< 10%	< 10%	< 10%						
< 10%	< 10%	< 10%						
< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)						
< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)						
2000 Hz	2000 Hz	2000 Hz						
< 3%	< 3%	< 3%						
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)						
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads						
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)						
IP67	IP67	IP67						
		2 m						
		2 x 0,25 mm²						
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass						
LCP	LCP	LCP						
4Nm	4Nm	4Nm						
		80 g						
35g	55g							

2 wires NAMUR

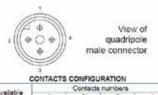


M8 2 wires NAMUR



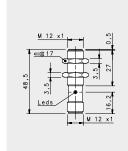
Available	Cor	ntacts numb	HEE
Available.	1	3	4
NAMUR	+		

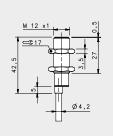
M12 2 wires NAMUR

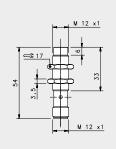


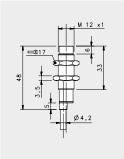
Available		Contacts	numbers	
Available	1	2	3	4
NAMUR	+		-	





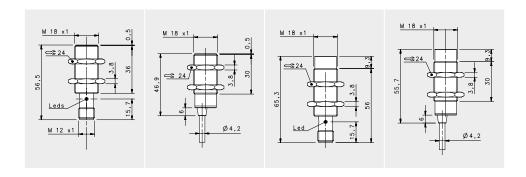






					NAI	MUR	
				FLL	JSH	NON I	LUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		2 mm	2 mm	4mm	4mm
	PNP/NPN	l					
10-30 Vdc	NO-NC	4 wires	order No.				
40.201/4-	PNP	2					
10-30 Vdc	NO	3 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 vac	NC	2 Miles	order No.				
10-30 Vdc	NPN	3 wires					
	NO	3 11.11.03	order No.				
10-30 Vdc	NPN	3 wires					
	NC		order No.				
10-30 Vdc	PNP NO-NC	4 wires	and an Na				
			order No.				
10-30 Vdc	NPN NO-NC	4 wires	order No.				
			oracr NO.				
10-30 Vdc	NO-NC	2 wires	order No.				
			order res				
20-250 Vac/Vdc	NO	2 wires	order No.				
20 2501/ ///	NC	<u>.</u> .					
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/2.uims					
20-250 Vac	NU	2/3 wires	order No.				
10-30 Vdc	Analog	3 wires					
10 30 vac	0-20 mA	J WIICS	order No.				
NAMUR amplifier	NAMUR	2 wires		IS-12-A20-S2	IS-12-A20-03	IS-12-C20-S2	IS-12-C20-03
			order No.	95B064180	95B064160	95B064190	95B064170
Name in all Valles as				77.07/00	77 . OV DC	77.01/00	77.07/06
Nominal Voltage				7,7 + 9 V DC			
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis	-1			< 10%	< 10%	< 10%	< 10%
Max. Output Currer				< 3 mA (metal absent)			
Min. Output Curre	IIL			< 1 mA (metal present)			
Residual Current							
Voltage Drop Operation Led							
Switching Frequer	2614			2000 Hz	2000 Hz	2000 Hz	2000 Hz
Start Up Delay	icy			2000 112	2000112	2000112	2000 112
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Short circuit i rote	ccion			Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal
Electric Protection	l			inductive loads	inductive loads	inductive loads	inductive loads
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2 x 0,25 mm^2		2 x 0,25 mm^2
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Tightening torque				10Nm	10Nm	10Nm	10Nm
Weight - Cable Out	put				110 g		110 g
Weight - Connecto				60 g		60 g	
	1 1			U		. 0	

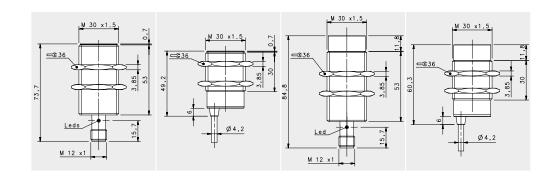




NAMUR

				FLU	SH	NON F	LUSH
				M12 conn	cable	M12 conn	cable
OMINAL SWITCH	HING DISTAN	CE		5mm	5mm	8mm	8mm
	PNP/NPN	T					
10-30 Vdc	NO-NC	4 wires	order No.				
10. 20.141	PNP	_ ·					
10-30 Vdc	NO	3 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 vac	NC	2 Miles	order No.				
10-30 Vdc	NPN	3 wires					
0 30 vac	NO	J WIICS	order No.				
0-30 Vdc	NPN	3 wires					
	NC		order No.				
10-30 Vdc	PNP	4 wires					
	NO-NC		order No.				
0-30 Vdc	NPN	4 wires	N -				
	NO-NC		order No.				
0-30 Vdc	NO-NC	2 wires	order No.				
			order NO.				
20-250 Vac/Vdc	NO	2 wires	order No.				
			order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
			Order No.				
0-250 Vac	NO	2/3 wires	order No.				
	Analog						
0-30 Vdc	0-20 mA	3 wires	order No.				
IAMUD III:	NAMUD	2		IS-18-A20-S2	IS-18-A20-03	IS-18-C20-S2	IS-18-C20-03
IAMUR amplifier	NAMUR	2 wires	order No.	95B064380	95B064360	95B064390	95B064370
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Лах. Output Curre	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
Min. Output Curre	ent			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
Residual Current							
/oltage Drop							
Operation Led							
Switching Freque	ncy			1000 Hz	1000 Hz	1000 Hz	1000 Hz
Start Up Delay							
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	n			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
emperature Limit	L			,		IP67	IP67
				IP67	IP67		
rotection Degree				IP67	IP67 2 m		
Protection Degree Cable Length					2 m		2 m
Protection Degree Cable Length Cable Section					2 m 2 x 0,25 mm²		2 m 2 x 0,25 mm²
Protection Degree Cable Length Cable Section Housing Material				 Nickel-plated brass	2 m 2 x 0,25 mm² Nickel-plated brass	 Nickel-plated brass	2 m 2 x 0,25 mm² Nickel-plated brass
Protection Degree Cable Length Cable Section Housing Material Active face				 Nickel-plated brass LCP	2 m 2 x 0,25 mm² Nickel-plated brass LCP	 Nickel-plated brass LCP	2 m 2 x 0,25 mm² Nickel-plated brass LCP
Temperature Limit Protection Degree Cable Length Cable Section Housing Material Active face Tightening torque Weight - Cable Ou				 Nickel-plated brass	2 m 2 x 0,25 mm² Nickel-plated brass	 Nickel-plated brass	2 m 2 x 0,25 mm² Nickel-plated brass

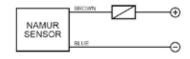




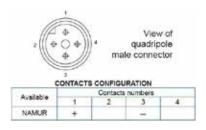
NAMUR

				FLUSH NON F		FLUSH	
				M12 conn	cable	M12 conn	cable
OMINAL SWITCH	IING DISTAN	CE		10mm	10mm	15mm	15mm
	PNP/NPN						
0-30 Vdc	NO-NC	4 wires	order No.				
	PNP						
0-30 Vdc	NO	3 wires	order No.				
	PNP	1					
0-30 Vdc	NC	3 wires	order No.				
0.2014-	NPN	2					
0-30 Vdc	NO	3 wires	order No.				
0-30 Vdc	NPN	3 wires					
J-50 Vac	NC	2 Miles	order No.				
0-30 Vdc	PNP	4 wires					
J-30 vac	NO-NC	4 WIIES	order No.				
0-30 Vdc	NPN	4 wires					
5 50 vac	NO-NC	4 WIICS	order No.				
0-30 Vdc	NO-NC	2 wires					
		c3	order No.				
0-250 Vac/Vdc	NO	2 wires					
			order No.				
0-250 Vac/Vdc	NC	2 wires					
			order No.				
0-250 Vac	NO	2/3 wires	d N1 -				
			order No.				
0-30 Vdc	Analog 0-20 mA	3 wires	andan Na				
	0-20 IIIA		order No.	IS-30-A20-S2	 IS-30-A20-03	 IS-30-C20-S2	IS-30-C20-03
AMUR amplifier	NAMUR	2 wires	order No.	95B064630	95B064610	95B064640	95B064620
			order ivo.	33200 1030	35500.010	33300 10 10	33200 1020
ominal Voltage				7,7 + 9 V DC			
esidual Ripple				< 10%	< 10%	< 10%	< 10%
ysteresis				< 10%	< 10%	< 10%	< 10%
lax. Output Curre	nt			< 3 mA (metal absent)			
lin. Output Curre				< 1 mA (metal present)			
esidual Current							
oltage Drop							
peration Led							
witching Frequer	ncv			500 Hz	500 Hz	500 Hz	500 Hz
tart Up Delay	,						
epeatability				< 3%	< 3%	< 3%	< 3%
hort Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
ectric Protection				Against polarity reversal inductive loads			
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
otection Degree				(-23 +60 °C)	IP67	(-23 +00 °C) IP67	IP67
ble Length				IFO/	2 m		2 m
ible Section					2 x 0,25 mm²		2 x 0,25 mm²
ousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
ctive face				LCP	LCP	LCP	LCP
ghtening torque /eight - Cable Out				60Nm 	60Nm	60Nm 	60Nm
· ·	•				210 g		210 g
Veight - Connecto	r Output			170 g		170 g	

2 wires NAMUR



M12 2 wires NAMUR



SOUARE

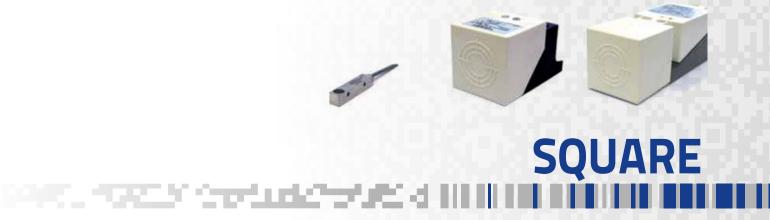
PBT (resin) or Nickel-plated Brass housing Operating distance 1.5 ... 15 mm 40x40 mm or 8x8 mm dimension Cable, M8 connector or Terminal Block 2 or 3 wires PNP, PNP/NPN, NO, NC, NO/NC **IP67**

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

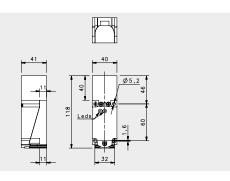


*IS-88 models only

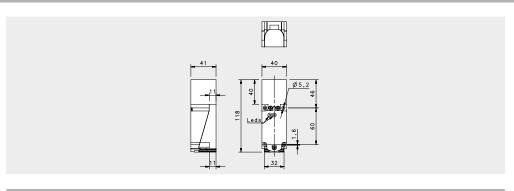


SOUARE 40X40





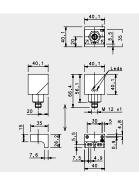
				40×40	
				FLUSH	NON FLUSH
				Terminal Block	Terminal Block
NOMINAL SWITCHING DISTANCE				15 mm	30mm
	PNP/NPN				
10-30 Vdc	NO-NC 4 w	4 wires	order No.		
10-30 Vdc	PNP	3 wires			
	NO		order No.		
10-30 Vdc	PNP NC	3 wires			
			order No.		
10-30 Vdc	NPN NO	3 wires			
			order No.		
	NPN NC	3 wires			
			order No.		
	PNP			IS-40-W5-S3	IS-40-Y5-S3
10-30 Vdc	NO-NC	4 wires	order No.	95B065240	95B065280
10-30 Vdc	NPN NO-NC	4 wires		IS-40-W6-S3	IS-40-Y6-S3
			order No.	95B065230	95B065270
			2.22.10		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	0.42.110.		
			order No.		
20-250 Vac/Vdc	NC	2 wires	Order 140.		
			order No.		
20-250 Vac	NO	2/3 wires	Order 140.		
			order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	0.42.110.		
			order No.		
NAMUR amplifier		2 wires			
	NAMUR		order No.		
			1		
Nominal Voltage				10-30 Vdc	10-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 15% (Sr)	< 15% (Sr)
Max. Output Current				200mA	200mA
Min. Output Current					
Residual Current				< 0,01 mA	< 0,01 mA
Voltage Drop				< 1,5V	< 1,5V
Operation Led				YES	YES
Switching Frequency				100 Hz	100 Hz
Start Up Delay					
Repeatability				< 1.0% (Sr)	< 1.0% (Sr)
Short Circuit Protection				Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
Tananauakuun linaik					
Temperature Limit				(-25+75C)	(-25 +75 °C)
Protection Degree				IP67	IP67
Cable Length					
Cable Section					
Housing Material				PBT (RESIN)	PBT (RESIN)
Weight - Cable Output					
Weight - Connector Output				262g	262g

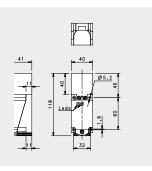


40X40 VAC/VDC							
FLUSH	NON FLUSH						
Terminal Block	Terminal Block						
15 mm	30mm						
							
							
IS-40-W7-S3	IS-40-Y7-S3						
95B065250	95B065290						
IS-40-W8-S3	IS-40-Y8-S3						
95B065260	95B065300						
20-250 VAC/Vdc, 50-60 Hz	20-250 VAC/Vdc, 50-60 Hz						
< 10%	< 10%						
< 15% (Sr)	< 15% (Sr)						
200mA	200mA						
< 2,5mA	< 2,5mA						
< 10Vac ; < 8Vdc	< 10Vac ; < 8Vdc						
YES	YES						
25 Hz AC; 40 Hz DC	25 Hz AC; 40 Hz DC						
< 1.0% (Sr)	< 1.0% (Sr)						
Present (self-resetting)	Present (self-resetting)						
Against polarity reversal inductive loads	Against polarity reversal inductive loads						
(-25 +70 °C)	(-25 +70 °C)						
IP67	IP67						
PBT (RESIN)	PBT (RESIN)						
262g	262g						

SOUARE 40X40



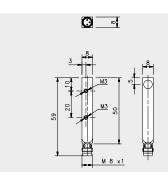


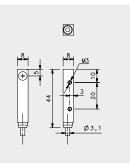


				SHORT	ANALOG OUTPUT
				FLUSH	NON FLUSH
				M12 conn.	Terminal Block
NOMINAL SWITCH	IOMINAL SWITCHING DISTANCE			15mm	7-20mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.		
10-30 Vdc	PNP NC	3 wires	order No.		
10-30 Vdc	NPN NO	3 wires	order No.		
10-30 Vdc	NPN NC	3 wires	order No.		
10-30 Vdc	PNP	4 wires		IS-40-X5-S2	
10-30 Vdc	NO-NC NPN	4 wires	order No.	95B065320 IS-40-X6-S2	
10-30 Vdc	NO-NC	2 wires	order No.	95B065310 	
	NO-NC		order No.	 	
20-250 Vac/Vdc		2 wires	order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO Analaa	2/3 wires	order No.		 IS-40-C11-S3
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		958065330
NAMUR amplifier	NAMUR	2 wires	order No.		
Nominal Voltage				10-30 Vdc	18-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 15% (Sr)	< 10% (Sr)
Max. Output Curre	nt			200mA	0-20mA/200 Ω Max.
Min. Output Curre					
Residual Current				< 0,01mA	
Voltage Drop				< 1,5V	
Operation Led				YES	
Switching Frequer	ncv			100 Hz	100 Hz
Start Up Delay	,				
Repeatability				< 1.0% (Sr)	0,02 mm
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)
Electric Protection		Against polarity reversal			Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					
Cable Section					
Housing Material				PBT (RESIN)	PBT (RESIN)
Weight - Cable Out	tnut			PD1 (RESIN)	PD1 (RESIN)
Weight - Cable Out	•			170 g	 242g
weight - connecto	n output			1708	2428

SOUARE 8X8







				SHORT		
				FLUSH		
				M8 conn	cable	
OMINAL SWITCH				1,5mm	1,5mm	
10-30 Vdc	PNP/NPN NO-NC	wires	order No.			
10-30 Vdc	PNP NO 3	3 wires	order No.	IS-88-Q1-51 95B060840	IS-88-Q1-03 95B060830	
10-30 Vdc	PNP NC 3	3 wires	order No.			
10-30 Vdc	NDN	3 wires	order No.			
10-30 Vdc	NDN	3 wires				
10-30 Vdc	PNP ,	wires	order No.			
	NO-NC NDN		order No.	 		
10-30 Vdc	NO-NC 4	wires	order No.			
10-30 Vdc	NO-NC 2	2 wires	order No.	 		
20-250 Vac/Vdc	NO 2	2 wires	order No.			
20-250 Vac/Vdc	NC 2	2 wires	order No.			
20-250 Vac	NO 2	2/3 wires				
0-30 Vdc	Analog 2	3 wires	order No.	 		
	0-20 mA		order No.			
NAMUR amplifier	NAMUR 2	2 wires	order No.			
Inminal Valtage				10-30 Vdc	10-30 Vdc	
Iominal Voltage				< 10%		
Residual Ripple					< 10%	
lysteresis				< 10% (Sr)	< 10% (Sr)	
Nax. Output Currer				200mA	200mA	
Ain. Output Curre	nt					
Residual Current						
oltage Drop				< 1,2V	< 1,2V	
peration Led				Yellow	Yellow	
witching Frequer	ncy			500 Hz	500 Hz	
itart Up Delay				75 ms	75 ms	
epeatability				< 3%	< 3%	
hort Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
lectric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
rotection Degree				IP67	IP67	
able Length					2 m	
Table Section					3x0,14mm²	
Housing Material				nickel-plated brass	nickel-plated brass	
Veight - Cable Out	nut			nicker-plated blass	80 g	
Weight - Cable Out Weight - Connector				 40 g	ou g 	

CAPACITIVE

Capacitive sensors are noncontact proximity devices suitable for detecting metals, nonmetals, solids, and liquids. The oscillating circuit is influenced by variations in capacity. When any material comes close to the active face, the capacity of the sensor varies and, if the threshold distance is passed, the sensor switches the state of its outputs. Like for the inductive sensors, the operating distance is calculated using a square piece of Fe37, with 1 mm thickness. The variation of the capacitance is due to the conductivity or non-conductivity of the different materials. Conductive materials change the capacitance of the sensor, while non-conductive materials change the dielectric constant of the reference capacitor; the sensor feel the variation of the generated electric field by its active sensing face.

Datalogic offers a basic range for the Capacitive sensors, M18 and M30 tubular housing, in Direct or Alternated Current, in nickel-plated brass or plastic housing, with timer and sensitivity adjustment trimmer, equipped with the industrial standard outputs, suitable for the most common applications of detection and in the filling level control of the materials.

HILL RESPONDENCE OF THE PARTY O

Nickel plated brass M18, M30

Basic series (NO-NC)

Capacitive A.C. series (plastic housing)

Multi-voltage series (SPDT relay)

Operating distance: 5...25 mm

Cable or M8 connector

2,4,6 wires

PNP or NPN, N.O. and N.C. outputs, SPDT relay

Delay ON or delay OFF model

IP67 protection

MATERIALS	REDUCTION FACTOR
Metal (Fe37)	1xSn
Water	1xSn
P.V.C.	0.5xSn
Glass	0.5xSn
Wood	0.4xSn





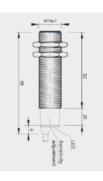


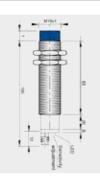
CAPACITIVE BASIC, CAPACITIVE A.C., MULTIVOLTAGE

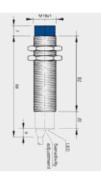
CAPACITIVE BASIC M18











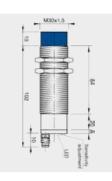
				STANDARD								
				FLU	JSH		NON FLUSH					
				M8 conn	cable	M8 conn	cable					
NOMINAL SWITCH	IING DISTANO	CE		15 mm	15 mm	110 mm	110 mm					
10-30 Vdc	PNP/NPN	4 wires										
10-30 vuc	NO-NC	4 WIIES	order No.									
10-30 Vdc	PNP	3 wires										
	NO		order No.									
10-30 Vdc	PNP	3 wires										
	NC		order No.									
10-30 Vdc	NPN NO	3 wires	audau Na									
			order No.									
10-30 Vdc	NPN NC	3 wires	order No.									
	PNP		order ivo.	CS08K2	CS08	CS14K2	CS14					
10-30 Vdc	NO-NC	4 wires	order No.	958901040	958901020	958901270	958901120					
	NPN		order ivo.	CS07K2	CS07	CS13K2	CS13					
10-30 Vdc	NO-NC	4 wires	order No.	958901000	958901160	958901250	958901100					
10-30 Vdc	NO-NC	2 wires	order No.									
20-250 Vac/Vdc	NO	2 wires	order No.									
20. 250.1/ /1/4-	NC	2										
20-250 Vac/Vdc	NC	2 wires	2 wires	2 wires	2 wires	2 wires	2 wires	order No.				
20-250 Vac	NO	2/3 wires	2/3 wires									
20-250 Vac	INO		order No.									
10-30 Vdc	Analog	3 wires	2 wires	3 wiros	3 wires							
10-30 Vuc	0-20 mA		order No.									
NAMUR amplifier	NAMUR	2 wires										
TVAINOR UITIPIITICI	IVAIVIOIT	2 WIIC3	order No.									
Nominal Voltage				12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)					
Residual Ripple				<10%	<10%	<10%	<10%					
Hysteresis					depends on the sensing distance							
Max. Output Currer	nt			200 mA	200 mA	200 mA	200 mA					
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA					
Voltage Drop				< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)					
Setting					sensitivity adjustment trimmer	, ,						
Operation Led				Yellow	Yellow	Yellow	Yellow					
Switching Frequer	icy			10 Hz	10 Hz	10 Hz	10 Hz					
Start Up Delay				< 100 ms ≤ 5%	< 100 ms ≤ 5%	< 100 ms ≤ 5%	< 100 ms ≤ 5%					
Repeatability Short Circuit Prote	ection			-		S 5% Present(self-resetting)	≥ 5% Present(self-resetting)					
Short Circuit Prote	:CCIOII			Present(self-resetting) Against polarity	Present(self-resetting) Against polarity	Against polarity	Against polarity					
Electric Protection	S			reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads					
Temperature Limits				- 25 +70 C	- 25 +70 C	- 25 +70 C	- 25 +70 C					
Protection Degree	-			IP67	IP67	IP67	IP67					
Cable Length					2 m	1F07 	2 m					
Cable Section					4x 0,25 mm^2		4x 0,25 mm^2					
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass					
busing waterial				Tricker placed brass	reicher prateu bruss	wiener plated blass	rener plated blass					
Weight - Cable Out	put				160 g		160 g					

CAPACITIVE BASIC M30









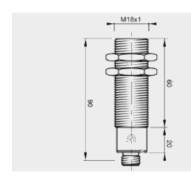


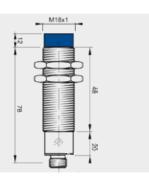
				STANDARD				
				FLU		NON F	LUSH	
				M8 conn	cable	M8 conn	cable	
IOMINAL SWITCH	ING DISTAN	CE		115 mm	115 mm	125 mm	125 mm	
10-30 Vdc	PNP/NPN	4 wires						
10-30 vac	NO-NC	4 WIIES	order No.					
10-30 Vdc	PNP	3 wires						
.0 30 140	NO	5	order No.					
10-30 Vdc	PNP	3 wires						
	NC		order No.					
10-30 Vdc	NPN	3 wires						
	NO		order No.					
10-30 Vdc	NPN	3 wires						
	NC		order No.					
10-30 Vdc	PNP NO NC	4 wires	4 wires		CS10K2	CS10	CS16K2	CS16
	NO-NC		order No.	958901080	958901060	958901330	958901140	
10-30 Vdc	NPN NO-NC 4 wire	4 wires		CS09K2	CS09	CS15K2	CS15	
	INU-INC		order No.	958901230	958901180	958901300	958901200	
10-30 Vdc	NO-NC	-NC 2 wires	N -					
			order No.					
20-250 Vac/Vdc	NO	NO 2 wires	andan Na					
			order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
			order No.					
20-250 Vac	NO	2/3 wires	order No.					
	Analog		Sidel No.					
10-30 Vdc	0-20 mA	3 wires	order No.					
		l						
NAMUR amplifier	NAMUR	2 wires	order No.					
Nominal Voltage				12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)			
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
Electric Protections	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		250 g		250 g
Weight - Connector Output	210 g		210 g	

CAPACITIVE A.C. M18







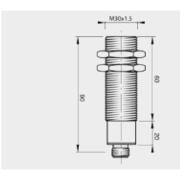
				FLUSH	NON FLUSH
				M12 conn	M12 conn
NOMINAL SWITCH	IING DISTANO	Œ		28 mm	215 mm
10-30 Vdc	PNP/NPN	4 wires			
10-30 Vuc	NO-NC	4 WIIES	order No.		
10-30 Vdc	PNP	3 wires			
	NO	5 11	order No.		
10-30 Vdc	PNP	3 wires			
	NC		order No.		
10-30 Vdc	NPN	3 wires			
	NO		order No.		
10-30 Vdc	NPN NC	3 wires	and an Na		
			order No.		
10-30 Vdc	PNP NO-NC	4 wires	order No.		
	NPN		order No.		
10-30 Vdc	NO-NC	4 wires	order No.		
			oraci itoi		
10-30 Vdc	NO-NC	2 wires	order No.		
				CSP40K4	CSP41K4
20-250 Vac/Vdc	NO	2 wires	order No.	958901380	958901390
20. 250 1/ /1/4-	NC	2			
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	NO 2/3wires			
20-230 Val	INU	2/ J WIIES	order No.		
10-30 Vdc	Analog	3 wires			
50 140	0-20 mA	5 WIICS	order No.		
NAMUR amplifier	NAMUR	2 wires			
			order No.		

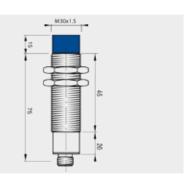
STANDARD

Nominal Voltage	20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current
Residual Ripple	<10%	<10%
Hysteresis	< 15%	< 15%
Max. Output Current	300 mA	300 mA
Min. Output Current	2,5 mA	2,5 mA
Residual Current	< 2,5 mA	< 2,5 mA
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay		
Repeatability	< 5%	< 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Plastic (PBT)	Plastic (PBT)
Weight - Cable Output		
Weight - Connector Output	80 g	80 g

CAPACITIVE A.C. M30





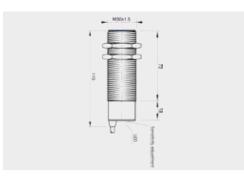


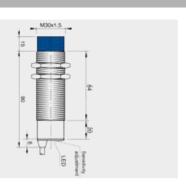
				STANDARD		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
IOMINAL SWITCH	ING DISTAN	CE		220 mm	230 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.	CSP50K4 958901400	CSP51K4 958901410	
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			

N . 137 b	20.2501/ / 45/40%) 58	20.250.1/ / 45/40% 58
Nominal Voltage	20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current
Residual Ripple	<10%	<10%
Hysteresis	< 15%	< 15%
Max. Output Current	300 mA	300 mA
Min. Output Current	2,5 mA	2,5 mA
Residual Current	< 2,5 mA	< 2,5 mA
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay		
Repeatability	< 5%	< 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Plastic (PBT)	Plastic (PBT)
Weight - Cable Output		
Weight - Connector Output	200 g	200 g

CAPACITIVE MULTIVOLTAGE M30



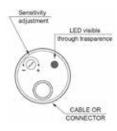




				STANDARD (TI	MER TRIMMER)
				FLUSH	NON FLUSH
				M12 conn	M12 conn
IOMINAL SWITCH	ING DISTANC	CE		20 mm	30 mm
40.2014-	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	PNP	3 wires			
10-30 vac	NO	2 MILES	order No.		
10-30 Vdc	PNP	3 wires			
10 30 vac	NC	J WIICS	order No.		
10-30 Vdc	NPN	3 wires			
	NO		order No.		
10-30 Vdc	NPN	3 wires			
	NC		order No.		
0-30 Vdc	PNP	4 wires			
	NO-NC		order No.		
10-30 Vdc	NPN NO-NC	4 wires	N -		
	INO-INC		order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
			order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
			order No.	CS31	CS32
8230 VAC/DC	relay SPDT	6 wires	order No.	958901150	958901220
	relay SPDT		order No.	CS32TD5	CS31TD5
8230 Vac/dc	(delay ON)	6wires	order No.	958901360	958901350
	relay SPDT			CS32TE5	CS31TE5
8230 VAC/DC	(delay OFF)	6 wires	order No.	958901370	958901210
IAMUR amplifier	NAMUR	2 wires	order No.		
Nominal Voltage				18-230Vac/dc (-15/10%)	18-230Vac/dc (-15/10%)
Residual Ripple				<10%	<10%
Hysteresis				<10%	<10%

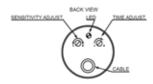
Nominal Voltage	18-230Vac/dc (-15/10%)	18-230Vac/dc (-15/10%)
Residual Ripple	<10%	<10%
Hysteresis	<10%	<10%
Max. Output Current	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)
Absorption	2,5 VA	2,5 VA
Residual Current		
Setting	sensitivity and time adj. trimmer	sensitivity and time adj. trimmer
Operation Led	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz
Start Up Delay	<300 ms	<300 ms
Repeatability	<5%	<5%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP65	IP65
Cable Length	2 m	2 m
Cable Section	6x0,30 mm ²	6x0,30 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output	250 g	250 g
Weight - Connector Output		

CAPACITIVE SETTINGS & CONNECTIONS



Sensitivity adjustment

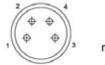
The sensitivity adjustment must be done when the sensor is installed in a definite and steady position. The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping. The sensing distance of the sensor depends on the materials to detect, on its dimension and conductivity. The distance could change according to temperature



Timer adjustment

The timer trimmer allows to set a delay, on the activation (delay ON) or in the de-activation of the output, depends on the model, after the detection of the object. The output will remain active (or inactive) proportionally to the setting point of the screw, starting from 1 second up to 5 minutes.

M8 4-pole NO-NC models

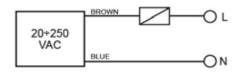


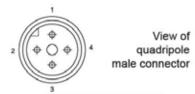
View of quadripole male connector

CONTACTS CONFIGURATION

Outred		Contacts	numbers	
Output	1	2	3	4
NPN/PNP NO+NC	+	NC	-	NO

2 wires Vac models

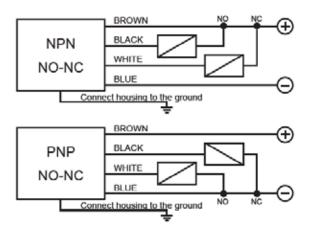




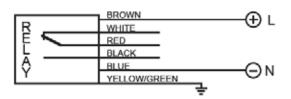
CONTACTS CONFIGURATION

Available	Contacts numbers			
	1	2	3	4
NO	L		N	

4 wires NO-NC Vdc model



6 wires Mulivoltage models



CABLES, CONNECTORS & ACCESSORIES

2, 3, 4 wires M12, M8 connector Axial or radial 90° Shielded or unshielded Double key A.C. cable 3, 5, 7, 10, 15, 25m cable



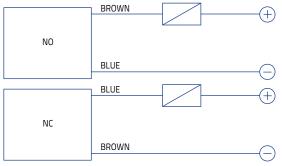


CABLES, CONNECTORS & ACCESSORIES

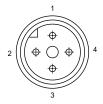
CABLES. CONNECTORS & ACCESSORIES

2 WIRES SENSORS

2 WIRES NO-NC



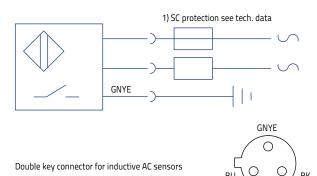
WARNING: The load can be indifferently connected in series to the blue wire or to the brown wire to simulate NPN or PNP functionning logic.



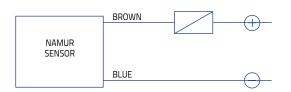
M12 connector

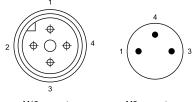
CONTACTS CONFIGURATION					
Available	Contacts numbers				
Available	1	2	3	4	
NO	+		-		
NC	_		+		

INDUCTIVE AC



NAMUR



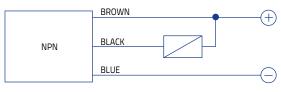


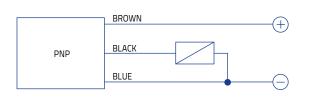
M12 connector

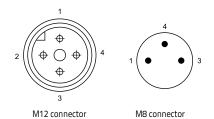
M8 connector

CONTACTS CONFIGURATION					
Available	Contacts	numbers			
Available	1	2	3	4	
NAMUR	+		-		

3 WIRES SENSORS 3 WIRES PNP or NPN, NO or NC



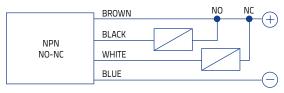


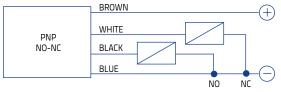


CONTACTS CONFIGURATION				
Available	Contacts num	bers		
Available	1	2	3	4
(NO or NC) + - NO/NC				

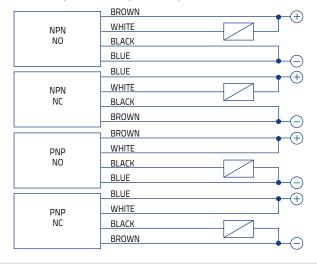
4 WIRES SENSORS

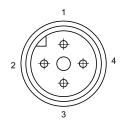
4 wires (NO+NC)





4 wires (PNP/NPN, NO/NC)





CONTACTS CONFIGURATION					
Output	Contacts numbers				
	1	2	3	4	
NO + NC	+	NC	-	NO	

	COV	ITACTS CONFIG	URATION			
Output	Contacts	Contacts numbers				
Output	1	2	3	4		
NPN NO	+	NO	-	-		
NPN NC	-	NC	+	-		
PNP NO	+	+	-	NO		
PNP NC	_	+	+	NC		

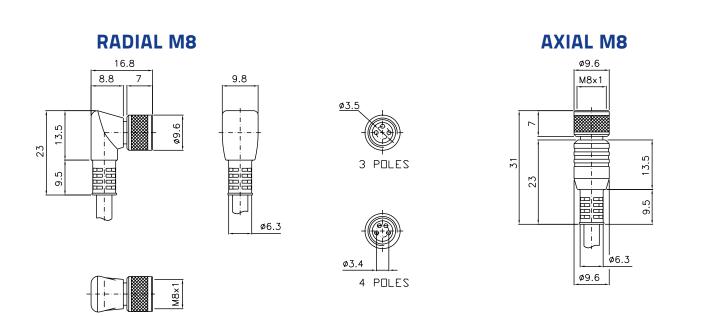
CABLES, CONNECTORS & ACCESSORIES

CONNECTOR & DIRECTION	WIRES	STYLE	CABLE LENGHT	MODEL	ORDER No.	
		N	3	CC D4 C4 C C3	051351/03	
			Grey, P.V.C.	3 m	CS-B1-01-G-03	95A251490
M8 Connector	3		5 m	CS-B1-01-G-05	95A251510	
(Axial)		P.U.R.	2 m	CS-B1-01-R-02	95A251580	
			5 m	CS-B1-01-R-05	95A251600	
	3 -		Grey, P.V.C.	3 m	CS-B2-01-G-03	95A251500
M8 Connector		Grey, rate.	5 m	CS-B2-01-G-05	95A251520	
(Radial 90°)	J	P.U.R.	2 m	CS-B2-01-R-02	95A251590	
		1.0.11.	5 m	CS-B2-01-R-05	95A251610	
			3 m	CS-B1-02-G-03	95A251420	
		C. D.V.C	5 m	CS-B1-02-G-05	95A251430	
M8 Connector (Axial)		Grey, P.V.C.	7 m	CS-B1-02-G-07	95A251440	
			10 m	CS-B1-02-G-10	95A251480	
	4		2 m	CS-B1-02-R-02	95A251620	
		P.U.R.	5 m	CS-B1-02-R-05	95A251640	
		OIL resistant	5 m	CS-B1-02-0-05	95A251730	
		(CEI 2034-01)	10 m	CS-B1-02-0-10	95A251100	
			3 m	CS-B2-02-G-03	95A251450	
			5 m	CS-B2-02-G-05	95A251460	
		Grey, PVC	7 m	CS-B2-02-G-05	95A251470	
140.5						
M8 Connector (Radial 90°)	4		10 m	CS-B2-02-G-10	95A251530	
(Madiai 50)		P.U.R.	2 m	CS-B2-02-R-02	95A251630	
			5 m	CS-B2-02-R-05	95A251650	
		OIL resistant	5 m	CS-B2-02-0-05	95A251720	
		(CEI 2034-01)	10 m	CS-B2-02-0-10	95A251110	
		M	12			
			3 m	CS-A1-01-G-03	95A251290	
M12 Connector (Axial)	3	Grey, P.V.C.	5 m	CS-A1-01-G-05	95A251300	
			7 m	CS-A1-01-G-07	95A251320	
			10 m	CS-A1-01-G-10	95A251340	
	3	Grey, P.V.C.	3 m	CS-A2-01-G-03	95A251200	
			5 m	CS-A2-01-G-05	95A251210	
			7 m	CS-A2-01-G-07	95A251220	
M12 Connector (Radial 90°)			10 m	CS-A2-01-G-10	95A251230	
(Radiai 90°)			3 m	CS-A2-01-0-03	95A251660	
		OIL resistant	5 m	CS-A2-01-0-05	95A251670	
		(CEI 2034-01)	10 m	CS-A2-01-0-10	95A251680	
112 Connector with LED			5 m	CS-A2-11-G-05	95A251310	
(for PNP N.O. sensors)	3	Grey, P.V.C.				
(Radial 90°)			10 m	CS-A2-11-G-10	95A251330	
ded M12 Connector (Axial)	3	Grey, P.V.C.	10 m	CV-A1-21-G-10	95ACC2060	
26			2 m	CS-A1-21-R-02	95ACC8000	
2 Connector Axial Double eyd + PE for AC inductive	3	Orange, P.V.C.	3 m	CS-A1-21-R-03	95ACC8010	
, a			5 m	CS-A1-21-R-05	95ACC8020	
			3 m	CS-A1-02-G-03	95A251380	
		6 846	5 m	CS-A1-02-G-05	95A251270	
M12 Connector		Grey, P.V.C.	7 m	CS-A1-02-G-07	95A251280	
(Axial)	4		10 m	CS-A1-02-G-10	95A251390	
			2 m	CS-A1-02-R-02	95A251540	
		P.U.R.	5 m	CS-A1-02-R-05	95A251560	
			3 m	CS-A2-02-G-03	95A251360	
			5 m	CS-A2-02-G-05	95A251240	
		Grey, P.V.C.	7 m	CS-A2-02-G-05	95A251245	
1426						
M12 Connector (Radial 90°)	4		10 m	CS-A2-02-G-10	95A251260	
(Naulai 50)		P.U.R.	2 m	CS-A2-02-R-02	95A251550	
			5 m	CS-A2-02-R-05	95A251570	
		OIL resistant	5 m	CS-A2-02-0-05	95A251690	
		(CEI 2034-01)	10 m	CS-A2-02-0-10	95A251700	
112 Connector with LED			3 m	CS-A2-12-G-03	95A251400	
(for PNP N.O. sensors)	4	Grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350	
(Radial 90°)			10 m	CS-A2-12-G-10	95A251370	

			3 m	CV-A1-22-B-03	95ACC1480
			5 m	CV-A1-22-B-05	95ACC1490
Shielded M12 Connector (Axial)	4	Black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500
(1.03121)			15 m	CV-A1-22-B-15	95ACC2070
			25 m	CV-A1-22-B-25	95ACC2090
			3 m	CV-A2-22-B-03	95ACC1540
Shielded M12 Connector (Radial 90°)	Shielded M12 Connector (Radial 90°)	Black, P.V.C.	5 m	CV-A2-22-B-05	95ACC1550
(1.tas.a. 30)			10 m	CV-A2-22-B-10	95ACC1560
			3 m	CS-A1-02-U-03	95ASE1120
		U.L., Black, P.V.C.	5 m	CS-A1-02-U-05	95ASE1130
M12 Connector (Axial)	4		10 m	CS-A1-02-U-10	95ASE1140
(1.11141)			15 m	CS-A1-02-U-15	95ASE1150
			25 m	CS-A1-02-U-25	95ASE1160
		CONNECTOR	(not cabled)		
M12 Connector (Axial)	4	Black	Connector- not cabled	CS-A1-02-B-NC	G5085002
M12 Connector (Radial 90°)	4	Black	Connector- not cabled	CS-A2-02-B-NC	G5085003

CONNECTOR

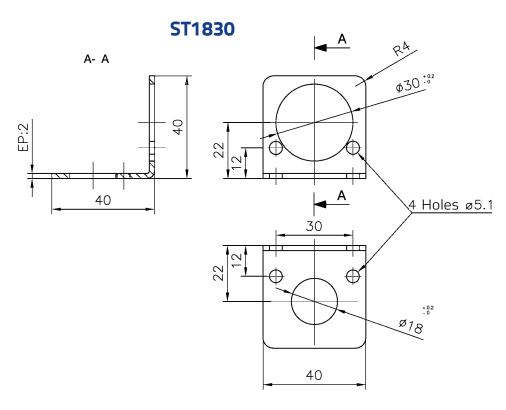
RADIAL M12 AXIAL M12 38.5 42.5 24.5 14.6 10 30 16 14 8888 8888 24 10 M12x1 ø14

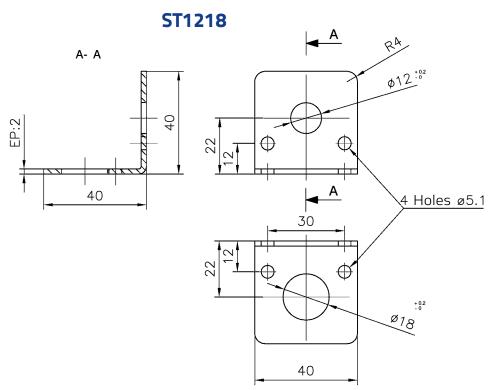


CABLES, CONNECTORS & ACCESSORIES

ACCESSORIES SELECTION AND ORDER INFORMATION

CONNECTOR	TYPE	MATERIAL	CODING	ORDER No.
M12	fixing bracket	Stainless Steel	ST1218	95ACC3340
M18	fixing bracket	Stainless Steel	ST1218	95ACC3340
M30	fixing bracket	Stainless Steel	ST1830	95ACC3350





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IS-04-A1-03	95B061011	STAINLESS STEEL	34		
IS-04-A3-03	95B061001	STAINLESS STEEL	34		
IS-05-A1-03	95B061041	BASIC	35		
IS-05-A1-S1	95B061051	BASIC	35		
IS-05-A20-03	95B065410	NAMUR	62		
IS-05-A3-03	95B061021	BASIC	35		
IS-05-A3-S1	95B061031	BASIC	35		
IS-05-A4-03	95B065420	BASIC	35		
IS-05-E3-03	95B065400	BASIC	35		
IS-65-A1-03	95B064730	BASIC	10		
IS-65-A1-S1 IS-65-A20-03	95B066050 95B066290	BASIC NAMUR	10 63		
IS-65-A20-03	95B066290 95B066310	NAMUR	63		
IS-65-A2-03	95B064770	BASIC	10		
IS-65-A2-S1	95B066090	BASIC	10		
IS-65-A3-03	95B064650	BASIC	10		
IS-65-A3-S1	95B064970	BASIC	10		
IS-65-A4-03	95B064690	BASIC	10		
IS-65-A4-S1	95B066010	BASIC	10		
IS-65-B1-03	95B064750	BASIC	11		
IS-65-B1-S1	95B066070	BASIC	11		
IS-65-B2-03	95B064790	BASIC	11		
IS-65-B2-S1	95B066110	BASIC	11		
IS-65-B3-03	95B064670	BASIC	11		
IS-65-B3-S1	95B064990	BASIC	11		
IS-65-B4-03	95B064710	BASIC	11		
IS-65-B4-S1	95B066030	BASIC	11		
IS-65-C1-03	95B064890	BASIC	10		
IS-65-C1-S1 IS-65-C20-03	95B066210	BASIC	10 63		
IS-65-C20-03	95B066300 95B066320	NAMUR NAMUR	63		
IS-65-C2-03	95B064930	BASIC	10		
IS-65-C2-S1	95B066250	BASIC	10		
IS-65-C3-03	95B064810	BASIC	10		
IS-65-C3-S1	95B066130	BASIC	10		
IS-65-C4-03	95B064850	BASIC	10		
IS-65-C4-S1	95B066170	BASIC	10		
IS-65-D1-03	95B064910	BASIC	11		
IS-65-D1-S1	95B066230	BASIC	11		
IS-65-D2-03	95B064950	BASIC	11		
IS-65-D2-S1	95B066270	BASIC	11		
IS-65-D3-03	95B064830	BASIC	11		
IS-65-D3-S1	95B066150	BASIC	11		
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IS-65-G2-03	95B064780	BASIC	12		
IS-65-G2-S1	95B066100	BASIC	12		
IS-65-G3-03	95B064660	BASIC	12		
IS-65-G3-S1	95B064980	BASIC	12		
IS-65-G4-03	95B064700	BASIC	12		
IS-65-G4-S1	95B066020	BASIC	12		
IS-65-H1-03	95B064900	BASIC	13		
IS-65-H1-S1	95B066220	BASIC	13		
IS-65-H2-03	95B064940	BASIC	13		
IS-65-H2-S1	95B066260	BASIC	13		
IS-65-H3-03	95B064820	BASIC	13		
IS-65-H3-S1	95B066140	BASIC	13		
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IS-65-N1-S1	95B066240	STAINLESS STEEL	37
IS-65-N2-03	95B064960	STAINLESS STEEL	37
IS-65-N2-S1	95B066280	STAINLESS STEEL	37
IS-65-N3-03	95B064840	STAINLESS STEEL	37
IS-65-N3-S1	95B066160	STAINLESS STEEL	37
IS-65-N4-03	95B064880	STAINLESS STEEL	37
IS-65-N4-S1	95B066200	STAINLESS STEEL	37

IS-65-N4-03	95B064880	STAINLESS STEEL	37
IS-65-N4-S1	95B066200	STAINLESS STEEL	37
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	95B061121		
IS-08-A1-03		BASIC	14
IS-08-A1-S1	95B061141	BASIC	14
IS-08-A1-S2	95B061131	BASIC	14
IS-08-A20-03	95B066740	NAMUR	64
IS-08-A20-03	95B066760	NAMUR	64
IS-08-A20-S1	95B066780	NAMUR	64
IS-08-A2-03	95B061151	BASIC	14
IS-08-A2-S1	95B061171		14
		BASIC	
IS-08-A2-S2	95B061161	BASIC	14
IS-08-A3-03	95B061061	BASIC	14
IS-08-A3-S1	95B061081	BASIC	14
IS-08-A3-S2	95B061071	BASIC	14
IS-08-A4-03	95B061091	BASIC	14
IS-08-A4-S1	95B061111	BASIC	14
IS-08-A4-S2	95B061101	BASIC	14
IS-08-B1-03	95B061921	BASIC	16
IS-08-B1-S1	95B066860	BASIC	16
IS-08-B1-S2	95B066590	BASIC	16
IS-08-B2-03	95B061951	BASIC	16
IS-08-B2-S1	95B066890	BASIC	16
IS-08-B2-S2	95B066620	BASIC	16
IS-08-B3-03	95B061861	BASIC	16
IS-08-B3-S1	95B066810	BASIC	16
IS-08-B3-S2	95B066530	BASIC	16
IS-08-B4-03	95B061891	BASIC	16
IS-08-B4-S1	95B066830	BASIC	16
IS-08-B4-S2	95B066560	BASIC	16
IS-08-C1-03	95B061521	BASIC	15
IS-08-C1-S1	95B061541	BASIC	15
IS-08-C1-S2	95B061531	BASIC	15
IS-08-C20-03	95B066750	NAMUR	65
IS-08-C20-S1	95B066790	NAMUR	65
IS-08-C20-S2	95B066770	NAMUR	65
IS-08-C2-03	95B061551	BASIC	15
IS-08-C2-S1	95B061571	BASIC	15
IS-08-C2-S2	95B061561	BASIC	15
IS-08-C3-03	95B066410	BASIC	15
IS-08-C3-S1	95B061481	BASIC	15
IS-08-C3-S2	95B061471	BASIC	15
IS-08-C4-03	95B066450	BASIC	15
IS-08-C4-S1	95B061511	BASIC	15
IS-08-C4-S2	95B061501	BASIC	15
IS-08-D1-03	95B062321	BASIC	17
IS-08-D1-S1	95B066970	BASIC	17
IS-08-D1-S2	95B066700	BASIC	17
IS-08-D2-03	95B062351	BASIC	17
IS-08-D2-S1	95B067000	BASIC	17
IS-08-D2-S2	95B066720	BASIC	17
IS-08-D3-03	95B066430	BASIC	17
IS-08-D3-S1	95B066920	BASIC	17
IS-08-D3-S2	95B066650	BASIC	17
IS-08-D4-03	95B062291	BASIC	17
IS-08-D4-S1	95B066940	BASIC	17
IS-08-D4-S2	95B066670	BASIC	17
IS-08-G1-03	95B066370	BASIC	18
IS-08-G1-S1	95B066850	BASIC	18
IS-08-G1-S2	95B066580	BASIC	18
IS-08-G2-03	95B066390	BASIC	18
IS-08-G2-S1	95B066880	BASIC	18
IS-08-G2-S2	95B066610	BASIC	18
IS-08-G3-03	95B066330	BASIC	18
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IS-08-G3-S1	95B066800	BASIC	18
IS-08-G3-S2	95B066520	BASIC	18
IS-08-G4-03	95B066350	BASIC	18
IS-08-G4-S1	95B063131	BASIC	18
IS-08-G4-S2	95B066550	BASIC	18
IS-08-H1-03	95B066480	BASIC	19
IS-08-H1-S1	95B066960	BASIC	19
IS-08-H1-S2	95B066690	BASIC	19
IS-08-H2-03	95B066500	BASIC	19
IS-08-H2-S1	95B066990	BASIC	19
IS-08-H2-S2	95B063301	BASIC	19
IS-08-H3-03	95B066420	BASIC	19
IS-08-H3-S1	95B066910	BASIC	19
IS-08-H3-S2	95B066640	BASIC	19
IS-08-H4-03	95B066460	BASIC	19
IS-08-H4-S1	95B063251	BASIC	19
IS-08-H4-S2	95B063241	BASIC	19
IS-08-M1-03	95B066380	STAINLESS STEEL	38
IS-08-M1-S1	95B066870	STAINLESS STEEL	38
IS-08-M1-S2	95B066600	STAINLESS STEEL	38
IS-08-M2-03	95B066400	STAINLESS STEEL	38
IS-08-M2-S1	95B066900	STAINLESS STEEL	38
IS-08-M2-S2	95B066630	STAINLESS STEEL	38
IS-08-M3-03	95B066340	STAINLESS STEEL	38
IS-08-M3-S1	95B066820	STAINLESS STEEL	38
IS-08-M3-S2	95B066540	STAINLESS STEEL	38
IS-08-M4-03	95B066360	STAINLESS STEEL	38
IS-08-M4-S1	95B066840	STAINLESS STEEL	38
IS-08-M4-S2	95B066570	STAINLESS STEEL	38
IS-08-N1-03	95B066490	STAINLESS STEEL	39
IS-08-N1-S1	95B066980	STAINLESS STEEL	39
IS-08-N1-S2	95B066710	STAINLESS STEEL	39
IS-08-N2-03	95B066510	STAINLESS STEEL	39
IS-08-N2-S1	95B067010	STAINLESS STEEL	39
IS-08-N2-S2	95B066730	STAINLESS STEEL	39
IS-08-N3-03	95B066440	STAINLESS STEEL	39
IS-08-N3-S1	95B066930	STAINLESS STEEL	39
IS-08-N3-S2	95B066660	STAINLESS STEEL	39
IS-08-N4-03	95B066470	STAINLESS STEEL	39
IS-08-N4-S1	95B066950	STAINLESS STEEL	39
IS-08-N4-S2	95B066680	STAINLESS STEEL	39

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IS-12-A0-03	95B064030	BASIC	20
IS-12-A0-S2	95B064060	BASIC	20
IS-12-A1-03	95B061241	BASIC	20
IS-12-A1-S2	95B061251	BASIC	20
IS-12-A15-03	95B060680	INDUCTIVE AC	56
IS-12-A15-S2	95B060690	INDUCTIVE AC	56
IS-12-A20-03	95B064160	NAMUR	66
IS-12-A20-S2	95B064180	NAMUR	66
IS-12-A2-03	95B061271	BASIC	20
IS-12-A2-S2	95B061281	BASIC	20
IS-12-A3-03	95B061181	BASIC	20
IS-12-A3-S2	95B061191	BASIC	20
IS-12-A4-03	95B061211	BASIC	20
IS-12-A4-S2	95B061221	BASIC	20
IS-12-A9-03	95B064100	BASIC	20
IS-12-A9-S2	95B063931	BASIC	20
IS-12-B1-03	95B062041	BASIC	21
IS-12-B1-S2	95B062051	BASIC	21
IS-12-B2-03	95B062071	BASIC	21
IS-12-B2-S2	95B062081	BASIC	21
IS-12-B3-03	95B061981	BASIC	21
IS-12-B3-S2	95B061991	BASIC	21
IS-12-B4-03	95B062011	BASIC	21
IS-12-B4-S2	95B062021	BASIC	21
IS-12-C0-03	95B064040	BASIC	20
IS-12-C0-S2	95B064080	BASIC	20
IS-12-C1-03	95B061641	BASIC	20
IS-12-C1-S2	95B061651	BASIC	20
IS-12-C20-03	95B064170	NAMUR	66
IS-12-C20-S2	95B064190	NAMUR	66

IS-12-C2-O3 958061671 BASIC 20				
S-12-C2-S2 95B061881 BASIC 20 S-12-C3-S2 95B061981 BASIC 20 S-12-C4-S3 95B061981 BASIC 20 S-12-C4-S2 95B061611 BASIC 20 S-12-C4-S2 95B061611 BASIC 20 S-12-C4-S2 95B061611 BASIC 20 S-12-C4-S2 95B064110 BASIC 20 S-12-C9-S2 95B064110 BASIC 21 S-12-C9-S2 95B062441 BASIC 21 S-12-D1-S2 95B062441 BASIC 21 S-12-D1-S2 95B062451 BASIC 21 S-12-D2-S2 95B062451 BASIC 21 S-12-D3-S2 95B062451 BASIC 21 S-12-D3-S2 95B062451 BASIC 21 S-12-D3-S2 95B062481 BASIC 21 S-12-D3-S2 95B062481 BASIC 21 S-12-D3-S2 95B062481 BASIC 21 S-12-D4-O3 95B062411 BASIC 21 S-12-D4-O3 95B062411 BASIC 21 S-12-D4-O3 95B062411 BASIC 21 S-12-D4-O3 95B062411 BASIC 21 S-12-E0-S2 95B067230 BASIC 22 S-12-E0-S2 95B067230 BASIC 22 S-12-E0-S2 95B067300 BASIC 22 S-12-E0-S2 95B067030 BASIC 22 S-12-E0-S2 95B067600 BASIC 22 S-12-E0-S2 95B067700 BASIC 23 S-12-E0-S2 95B063361 BASIC 23 S-12-E0-S2 95B063361 BASIC 23 S-12-E0-S2 95B063361 BASIC	15 15 55 55		D. C. C	
IS-12-C3-03 958061591 BASIC 20 IS-12-C4-03 958061611 BASIC 20 IS-12-C4-03 958061611 BASIC 20 IS-12-C4-03 958061621 BASIC 20 IS-12-C9-03 958064110 BASIC 20 IS-12-C9-03 958064110 BASIC 20 IS-12-D1-52 958064140 BASIC 21 IS-12-D1-52 958062441 BASIC 21 IS-12-D1-52 958062471 BASIC 21 IS-12-D2-52 958062471 BASIC 21 IS-12-D2-52 958062471 BASIC 21 IS-12-D2-52 958062471 BASIC 21 IS-12-D3-03 958062471 BASIC 21 IS-12-D4-52 958062471 BASIC 21 IS-12-D4-52 958062471 BASIC 21 IS-12-D4-52 958067240 BASIC 22 IS-12-E0-53 958067190 BASIC 22 IS-12-E1-03 958067700 BASIC 22 IS-12-E1-52 958067303 BASIC 22 IS-12-E1-52 958067303 BASIC 22 IS-12-E1-52 958067303 BASIC 22 IS-12-E1-52 958067640 BASIC 22 IS-12-E3-03 958067690 BASIC 22 IS-12-E3-03 958067690 BASIC 22 IS-12-E3-03 958067690 BASIC 22 IS-12-E3-03 958067600 BASIC 22 IS-12-E4-52 958067600 BASIC 22 IS-12-E9-52 958067600 BASIC 22 IS-12-E9-52 958067600 BASIC 22 IS-12-E9-52 958067200 BASIC 22 IS-12-E9-52 958067200 BASIC 22 IS-12-E9-52 958067200 BASIC 22 IS-12-E1-03 958067200 BASIC 23 IS-12-E1-03 958067200 BASIC 23 IS-12-E1-03 958067200 BASIC 23 IS-12-E1-03 958063371 BASIC 23 IS-12-E1-03 95	IS-12-C2-03	9580616/1	BASIC	20
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IS-12-C4-52 95B064110 BASIC 20 IS-12-G9-52 95B064140 BASIC 20 IS-12-G9-52 95B064140 BASIC 20 IS-12-G9-52 95B062431 BASIC 21 IS-12-D1-52 95B062431 BASIC 21 IS-12-D1-52 95B062431 BASIC 21 IS-12-D2-03 95B062431 BASIC 21 IS-12-D3-03 95B062481 BASIC 21 IS-12-D3-03 95B062481 BASIC 21 IS-12-D3-03 95B062481 BASIC 21 IS-12-D3-52 95B062481 BASIC 21 IS-12-D4-52 95B062411 BASIC 21 IS-12-D4-52 95B062411 BASIC 21 IS-12-D4-52 95B062411 BASIC 21 IS-12-D4-52 95B062411 BASIC 22 IS-12-E0-03 95B067410 BASIC 22 IS-12-E0-52 95B067300 BASIC 22 IS-12-E1-03 95B067670 BASIC 22 IS-12-E1-03 95B067670 BASIC 22 IS-12-E1-03 95B067670 BASIC 22 IS-12-E1-52 95B067680 BASIC 22 IS-12-E3-03 95B067680 BASIC 22 IS-12-E3-03 95B067680 BASIC 22 IS-12-E3-03 95B067680 BASIC 22 IS-12-E3-52 95B067680 BASIC 22 IS-12-E3-63 95B067680 BASIC 22 IS-12-E3-63 95B067780 BASIC 23 IS-12-E3-52 95				
IS-12-G9-52 95B064140 BASIC 20 IS-12-G9-52 95B064140 BASIC 20 IS-12-D1-03 95B062441 BASIC 21 IS-12-D1-52 95B062451 BASIC 21 IS-12-D2-52 95B062471 BASIC 21 IS-12-D2-52 95B062471 BASIC 21 IS-12-D3-03 95B062471 BASIC 21 IS-12-D3-52 95B062391 BASIC 21 IS-12-D3-52 95B062391 BASIC 21 IS-12-D4-03 95B062391 BASIC 21 IS-12-D4-03 95B062411 BASIC 21 IS-12-D4-03 95B062411 BASIC 21 IS-12-D4-52 95B062411 BASIC 21 IS-12-D4-52 95B067240 BASIC 22 IS-12-E1-03 95B067190 BASIC 22 IS-12-E1-52 95B067670 BASIC 22 IS-12-E1-52 95B0676030 BASIC 22 IS-12-E1-52 95B067600 BASIC 22 IS-12-E1-52 95B067600 BASIC 22 IS-12-E3-03 95B067660 BASIC 22 IS-12-E3-03 95B067660 BASIC 22 IS-12-E4-03 95B067660 BASIC 22 IS-12-E4-03 95B067600 BASIC 22 IS-12-E4-03 95B067600 BASIC 22 IS-12-E4-03 95B067600 BASIC 22 IS-12-E4-03 95B067700 BASIC 23 IS-12-E4-03 9	IS-12-C4-03	95B061611	BASIC	20
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NOTE



NOTE



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