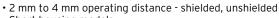
Ø 12

10÷30 Vdc - 3 WIRES NPN OR PNP OUTPUT





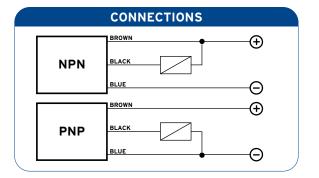
- Short housing models
- Cable or M8 or M12 connector models
- Output status LED

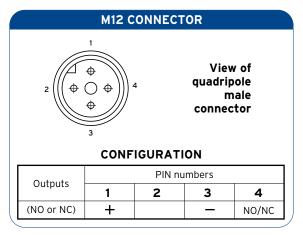


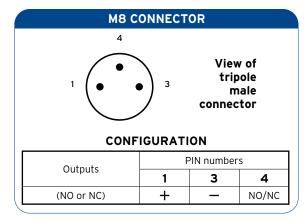
TECHNICAL DATA

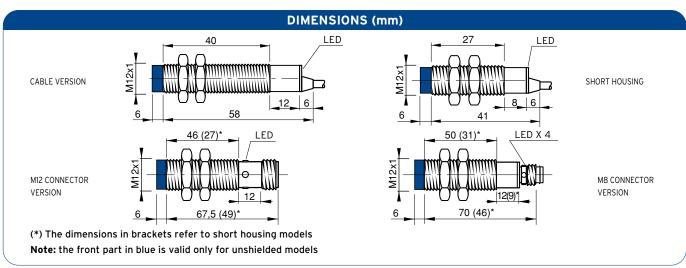
	SHIELDED	UNSHIELDED	
ODEDATING DISTANCE (C-)			
OPERATING DISTANCE (Sn)	2 mm	4 mm	
POWER SUPPLY	10 ÷ 30 Vdc (-15 / +10%)		
RIPPLE	≤1	0%	
HYSTERESIS	< 1	0%	
OUTPUT CURRENT	200 m	A max.	
CONSUMPTION	< 10 mA	. @ 24 Vdc	
SATURATION VOLTAGE	< 1.8 V (I :	= 100 mA)	
INDICATORS	Yello	w LED	
SWITCHING FREQUENCY	100	0 Hz	
DELAY AT POWER ON	≤ 50 ms		
REPEATABILITY	≤3%		
SHORT CIRCUIT PROTECTION	Present (se	lf-resetting)	
PROTECTIONS CIRCUIT	Against polarity reve	ersal - inductive loads	
OPERATING TEMPERATURE	- 25 ÷	+60 °C	
MECHANICAL PROTECTION	IP	67	
CONNECTIONS	2 m cable (3	x 0.25 mm ²)	
HOUSING MATERIAL	Nickel-pla	ated brass	
WEIGHT	110 g cab	ole version	
	60 g M8 conr	nector version	
	60 g M12 con	nector version	

⁽⁴⁾ Device marking (5) II 3D IP67 T6X.





















MODEL SELECTION TABLE				
CONSTRUCTION	OUTPUT	CONNECTION		
A= shielded standard housing	1 = 10-30 Vdc PNP NO	02 = 500 mm CABLE		
B= shielded short housing	2 = 10-30 Vdc PNP NC	03 = 2 m CABLE		
C= unshielded standard housing	3 = 10-30 Vdc NPN NO	S1 = M8 CONN.		
D= unshielded short housing	4 = 10-30 Vdc NPN NC	S2 = M12 CONN.		
E= shielded standard housing, double operating distance	5 = 10-30 Vdc PNP NO-NC			
F= unshielded standard housing, double operating distance 6 = 10-30 Vdc NPN NO-NC				
G= shielded short housing, double operating distance	7 = 24-230 Vac - 2 wires NO			
H= unshielded short housing, double operating distance	8 = 24-230 Vac - 2 wires NC			
I= shielded standard metal housing	9 = 10-30 Vac - 2 wires NO-NC			
L= unshielded standard metal housing	0 = 12-30 Vac - 4 wires			
	CONSTRUCTION A= shielded standard housing B= shielded short housing C= unshielded standard housing D= unshielded short housing E= shielded standard housing, double operating distance F= unshielded standard housing, double operating distance G= shielded short housing, double operating distance H= unshielded short housing, double operating distance I= shielded standard metal housing	CONSTRUCTION A= shielded standard housing B= shielded short housing C= unshielded standard housing D= unshielded short housing E= shielded short housing C= unshielded short housing A= 10-30 Vdc PNP NC C= unshielded short housing A= 10-30 Vdc NPN NC E= shielded standard housing, double operating distance F= unshielded standard housing, double operating distance F= unshielded short housing, double operating distance C= shielded short housing, double operating distance C= 24-230 Vac - 2 wires NO H= unshielded standard metal housing P= 10-30 Vac - 2 wires NC S= shielded standard metal housing P= 10-30 Vac - 2 wires NC		

		PRODUCT TAI	BLE	
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-12-A1-03	2 m CABLE	yes	standard	95B061240
IS-12-A1-S1	M8 CONNECTOR	yes	standard	95B061260
IS-12-A1-S2	M12 CONNECTOR	yes	standard	95B061250
IS-12-A2-03	2 m CABLE	yes	standard	95B061270
IS-12-A2-S1	M8 CONNECTOR	yes	standard	95B061290
IS-12-A2-S2	M12 CONNECTOR	yes	standard	95B061280
IS-12-A3-03	2 m CABLE	yes	standard	95B061180
IS-12-A3-S1	M8 CONNECTOR	yes	standard	95B061200
IS-12-A3-S2	M12 CONNECTOR	yes	standard	95B061190
IS-12-A4-03	2 m CABLE	yes	standard	95B061210
IS-12-A4-S1	M8 CONNECTOR	yes	standard	95B061230
IS-12-A4-S2	M12 CONNECTOR	ves	standard	95B061220
IS-12-B1-03	2 m CABLE	yes	short	95B062040
IS-12-B1-S1	M8 CONNECTOR	yes	short	95B062060
IS-12-B1-S2	M12 CONNECTOR	yes	short	95B062050
IS-12-B2-03	2 m CABLE	ves	short	95B062070
IS-12-B2-S1	M8 CONNECTOR	yes	short	95B062090
IS-12-B2-S2	M12 CONNECTOR	yes	short	95B062080
IS-12-B3-03	2 m CABLE	yes	short	958061980
IS-12-B3-S1	M8 CONNECTOR	yes	short	95B062000
IS-12-B3-S2	M12 CONNECTOR	yes	short	95B061990
IS-12-B4-03	2 m CABLE	yes	short	95B062010
IS-12-B4-S1	M8 CONNECTOR	yes	short	95B062030
IS-12-B4-S2	M12 CONNECTOR	yes	short	95B062020
IS-12-C1-03	2 m CABLE	no	standard	95B061640
IS-12-C1-S1	M8 CONNECTOR	no	standard	95B061660
IS-12-C1-S2	M12 CONNECTOR	no	standard	95B061650
IS-12-C2-03	2 m CABLE	no	standard	95B061670
IS-12-C2-S1	M8 CONNECTOR	no	standard	95B061690
IS-12-C2-S2	M12 CONNECTOR	no	standard	95B061680
IS-12-C3-03	2 m CABLE	no	standard	958061580
IS-12-C3-S1	M8 CONNECTOR	no	standard	95B061600
IS-12-C3-S2	M12 CONNECTOR	no	standard	95B061590
IS-12-C4-03	2 m CABLE	no	standard	95B061610
IS-12-C4-S1	M8 CONNECTOR	no	standard	95B061630
IS-12-C4-S2	M12 CONNECTOR	no	standard	95B061620
IS-12-D1-03	2 m CABLE	no	short	958062440
IS-12-D1-S1	M8 CONNECTOR	no	short	958062460
IS-12-D1-S2	M12 CONNECTOR	no	short	958062450
IS-12-D2-03	2 m CABLE	no	short	95B062470
IS-12-D2-S1	M8 CONNECTOR	no	short	95B062470
IS-12-D2-S2	M12 CONNECTOR	no	short	95B062480
IS-12-D3-03	2 m CABLE	no	short	95B062380
IS-12-D3-S1	M8 CONNECTOR	no	short	95B062400
IS-12-D3-S2	M12 CONNECTOR	no	short	95B062390
IS-12-D4-03	2 m CABLE	no	short	95B062410
IS-12-D4-S1	M8 CONNECTOR	no	short	95B062430
10 12 07 01	M12 CONNECTOR	110	short	95B062430 95B062420



Ø 12 DOUBLE OPERATING DISTANCE

10÷30 Vdc - 3 WIRES NPN OR PNP OUTPUT

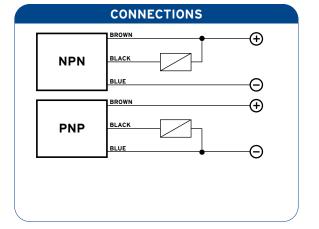
- 4 mm to 8 mm operating distance shielded, unshielded
- Short housing models
- Cable or M12 connector models
- Output status LED



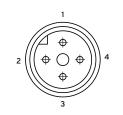


TECHNICAL DATA

	SHIELDED U	NSHIELDED	
OPERATING DISTANCE (Sn)	4 mm	8 mm	
POWER SUPPLY	10 ÷ 30 Vdc (-15	/ +10%)	
RIPPLE	≤10%		
HYSTERESIS	< 10%		
OUTPUT CURRENT	200 mA ma	ax.	
CONSUMPTION	< 10 mA @ 24	1 Vdc	
SATURATION VOLTAGE	< 1.2 V (I = 100) mA)	
INDICATORS	Yellow LEI	Yellow LED	
SWITCHING FREQUENCY	500 Hz	500 Hz	
DELAY AT POWER ON	≤ 75 ms	≤ 75 ms	
REPEATABILITY	≤3%	≤3%	
SHORT CIRCUIT PROTECTION	Present (self-res	Present (self-resetting)	
PROTECTIONS CIRCUIT	Against polarity reversal	- inductive loads	
OPERATING TEMPERATURE	- 25 ÷ +70 °	°C	
MECHANICAL PROTECTION	IP67		
CONNECTIONS	2 m cable (3 x 0.2	2 m cable (3 x 0.25 mm ²)	
HOUSING MATERIAL	Nickel-plated	brass	
WEIGHT	110 g cable ve	ersion	
	60 g M12 connecto	or version	



M12 CONNECTOR



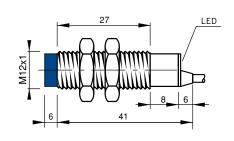
View of quadripole male connector

CONFIGURATION

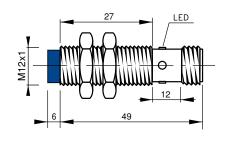
Outputs		PIN nu	ımbers	
Outputs	1	2	3	4
(NO or NC)	+		_	NO/NC

DIMENSIONS (mm)

CABLE VERSION



M12 CONNECTOR VERSION















	MODEL SELECTION TABLE				
DIAMETER	CONSTRUCTION	OUTPUT	CONNECTION		
04 = 4 mm	A= shielded standard housing	1 = 10-30 Vdc PNP NO	02 = 500 mm CABLE		
05 = 5 mm	B= shielded short housing	2 = 10-30 Vdc PNP NC	03 = 2 m CABLE		
08 = 8 mm	C= unshielded standard housing	3 = 10-30 Vdc NPN NO	S1 = M8 CONN.		
12 = 12 mm	D= unshielded short housing	4 = 10-30 Vdc NPN NC	S2 = M12 CONN.		
18 = 18 mm	E= shielded standard housing, double operating distance	5 = 10-30 Vdc PNP NO-NC			
30 = 30 mm	F= unshielded standard housing, double operating distance 6 = 10-30 Vdc NPN NO-NC				
	G= shielded short housing, double operating distance	7 = 24-230 Vac - 2 wires NO			
	H= unshielded short housing, double operating distance	8 = 24-230 Vac - 2 wires NC			
	I= shielded standard metal housing	9 = 10-30 Vac - 2 wires NO-NC			
	L= unshielded standard metal housing	0 = 12-30 Vac - 4 wires			

PRODUCT TABLE				
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-12-G1-03	CABLE	yes	short	95B063360
IS-12-G1-S2	M12	yes	short	95B063370
IS-12-G2-03	CABLE	yes	short	95B063380
IS-12-G2-S2	M12	yes	short	95B063390
IS-12-G3-03	CABLE	yes	short	95B063320
IS-12-G3-S2	M12	yes	short	95B063330
IS-12-G4-03	CABLE	yes	short	95B063340
IS-12-G4-S2	M12	yes	short	95B063350
IS-12-H1-03	CABLE	no	short	95B063440
IS-12-H1-S2	M12	no	short	95B063450
IS-12-H2-03	CABLE	no	short	95B063460
IS-12-H2-S2	M12	no	short	95B063470
IS-12-H3-03	CABLE	no	short	95B063400
IS-12-H3-S2	M12	no	short	95B063410
IS-12-H4-03	CABLE	no	short	95B063420
IS-12-H4-S2	M12	no	short	95B063430



Ø 12 DOUBLE OPERATING DISTANCE 10÷30 Vdc - 4 WIRES NPN OR PNP OUTPUT



- 4 mm to 8 mm operating distance shielded, unshielded
- Short housing models
- Cable or M12 connector models
- 200mA NPN or PNP
- Output status LED





TECHNICAL DATA

	SHIELDED	UNSHIELDED	
OPERATING DISTANCE (Sn)	4 mm	8 mm	
POWER SUPPLY	10 ÷ 30 Vdc	(-15 / +10%)	
RIPPLE	≤1	0%	
HYSTERESIS	< 1	0%	
OUTPUT CURRENT	200 m	A max.	
CONSUMPTION	< 10 mA	@ 24 Vdc	
SATURATION VOLTAGE	< 1.2 V (I	= 100 mA)	
INDICATORS	Yello	Yellow LED	
SWITCHING FREQUENCY	500	500 Hz	
DELAY AT POWER ON	75	75 ms	
REPEATABILITY	3	3%	
SHORT CIRCUIT PROTECTION	Present (se	Present (self-resetting)	
PROTECTIONS CIRCUIT	Against polarity reve	ersal - inductive loads	
OPERATING TEMPERATURE	- 25 ÷	+70 °C	
MECHANICAL PROTECTION	IP	67	
CONNECTIONS	2 m cable (3	2 m cable (3 x 0.25 mm ²)	
HOUSING MATERIAL	Nickel-pla	ated brass	
WEIGHT	110 g cab	le version	
	60 g M12 con	nector version	

CONNECTIONS BROWN \oplus BLACK NPN WHITE NO-NC BLUE BROWN \oplus WHITE **PNP** NO-NC

M12 CONNECTOR

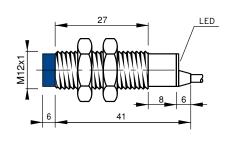
View of quadripole male connector

CONFIGURATION

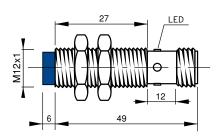
Outputs		PIN nu	mbers	
Outputs	1	2	3	4
(NO + NC)	+	NC	-	NO

DIMENSIONS (mm)

CABLE VERSION



M12 CONNECTOR VERSION















MODEL SELECTION TABLE CONSTRUCTION DIAMETER OUTPUT CONNECTION A= shielded standard housing 04 = 4 mm 1 = 10-30 Vdc PNP NO 02 = 500 mm CABLE 05 = 5 mm B= shielded short housing 2 = 10-30 Vdc PNP NC 03 = 2 m CABLE 08 = 8 mmC= unshielded standard housing 3 = 10-30 Vdc NPN NO S1 = M8 CONN. 12 = 12 mm D= unshielded short housing 4 = 10-30 Vdc NPN NC S2 = M12 CONN. 18 = 18 mm 5 = 10-30 Vdc PNP NO-NC E= shielded standard housing, double operating distance 30 = 30 mm F= unshielded standard housing, double operating distance 6 = 10-30 Vdc NPN NO-NC G= shielded short housing, double operating distance 7 = 24-230 Vac - 2 wires NO H= unshielded short housing, double operating distance 8 = 24-230 Vac - 2 wires NC I= shielded standard metal housing 9 = 10-30 Vac - 2 wires NO-NC L= unshielded standard metal housing 0 = 12-30 Vac - 4 wires

		PRODUCT TA	BLE	
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-12-G5-03	2 m CABLE	yes	standard	95B062680
IS-12-G5-S2	M12 CONNECTOR	yes	standard	95B062690
IS-12-G6-03	2 m CABLE	yes	standard	95B062660
IS-12-G6-S2	M12 CONNECTOR	yes	standard	95B062670
IS-12-H5-03	2 m CABLE	no	standard	95B062760
IS-12-H5-S2	M12 CONNECTOR	no	standard	95B062770
IS-12-H6-03	2 m CABLE	no	standard	95B062740
IS-12-H6-S2	M12 CONNECTOR	no	standard	95B062750



Ø 12 DOUBLE OPERATING DISTANCE 12÷30 Vdc - 4 WIRES PROGRAMMABLE OUTPUT



- 4 mm to 8 mm operating distance shielded, unshielded
- Programmable outputs: NPN/PNP, NO or NC
- Cable models
- Nickel plated brass
- Output status LED
- 200 mA max output



TECHNICAL DATA

	SHIELDED	UNSHIELDED
OPERATING DISTANCE (Sn)	4 mm	8 mm
POWER SUPPLY	12 ÷ 30 Vdc	(-15/+10%)
RIPPLE	≤1	0%
HYSTERESIS	< 1	0%
OUTPUT	NPN or PNP	(selectable)
CONTACT	NO or NC ((selectable)
OUTPUT CURRENT	200 m	A max.
CONSUMPTION	< 1.2 mA	@ 24 Vdc
SATURATION VOLTAGE	< 1,8 V (I = 100 mA)	
INDICATORS	Yellow LED	
SWITCHING FREQUENCY	500 Hz	
DELAY AT POWER ON	≤ 50 ms	
REPEATABILITY	≤:	3%
SHORT CIRCUIT PROTECTION	Present (se	lf-resetting)
PROTECTIONS CIRCUIT	Against polarity reve	ersal - inductive loads
OPERATING TEMPERATURE	- 25 ÷	+70 °C
MECHANICAL PROTECTION	IP67	
CONNECTIONS	2 m cable (4	x 0.25 mm ²)
HOUSING MATERIAL	Nickel-pla	ated brass
WEIGHT	110 g cab	le version
(1)		

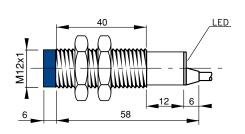
⁽¹⁾ Device marking (2) II 3D IP67 T6X.

CONNECTIONS NPN **PNP** NO BLACK NO Θ (**NPN PNP** WHITE NC BLACK NC

These sensors, thanks to the unpaired output circuit offer 4 output configurations (NPN-NO, NPN-NC, PNP-NO, PNP-NC) on the $\,$ same model.

DIMENSIONS (mm)

CABLE VERSION















MODEL SELECTION TABLE				
DIAMETER	CONSTRUCTION	OUTPUT	CONNECTION	
04 = 4 mm	A= shielded standard housing	1 = 10-30 Vdc PNP NO	02 = 500 mm CABLE	
05 = 5 mm	B= shielded short housing	2 = 10-30 Vdc PNP NC	03 = 2 m CABLE	
08 = 8 mm	C= unshielded standard housing	3 = 10-30 Vdc NPN NO	S1 = M8 CONN.	
12 = 12 mm	D= unshielded short housing	4 = 10-30 Vdc NPN NC	S2 = M12 CONN.	
18 = 18 mm	E= shielded standard housing, double operating distance	5 = 10-30 Vdc PNP NO-NC		
30 = 30 mm	F= unshielded standard housing, double operating distance	6 = 10-30 Vdc NPN NO-NC		
	G= shielded short housing, double operating distance	7 = 24-230 Vac - 2 wires NO		
	H= unshielded short housing, double operating distance	8 = 24-230 Vac - 2 wires NC		
	I= shielded standard metal housing	9 = 10-30 Vac - 2 wires NO-NC		
	L= unshielded standard metal housing	0 = 12-30 Vac - 4 wires		

		PRODUCT TABLE		
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-12-E0-03	CABLE	yes	standard	95B063840



Ø 12 DOUBLE OPERATING DISTANCE10÷30 Vdc 2 WIRES NO-NC PROGRAMMABLE OUTPUT



- 4 mm to 8 mm operating distance shielded, unshielded
- Cable models
- Nickel plated brass

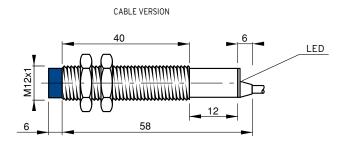


TECHNICAL DATA

	SHIELDED	UNSHIELDED	
OPERATING DISTANCE (Sn)	4 mm	8 mm	
POWER SUPPLY	10 ÷ 30 Vdc	(-15 / +10%)	
RIPPLE	≤1	0%	
HYSTERESIS	< 1	0%	
OUTPUT CURRENT	100 m	A max.	
OUTPUT CURRENT	> 1,6 r	nA min.	
CONSUMPTION	< 1,6 mA	@ 24 Vdc	
SATURATION VOLTAGE	< 6,5 V (I	= 100 mA)	
INDICATORS	Yello	w LED	
SWITCHING FREQUENCY	500) Hz	
DELAY AT POWER ON	≤ 50) ms	
REPEATABILITY	≤:	3%	
SHORT CIRCUIT PROTECTION	Present (se	lf-resetting)	
PROTECTIONS CIRCUIT	Against polarity reve	ersal - inductive loads	
OPERATING TEMPERATURE	- 25 ÷	+70 °C	
MECHANICAL PROTECTION	IP	67	
CONNECTIONS	2 m cable (2	x 0.25 mm ²)	
HOUSING MATERIAL	Nickel-pla	Nickel-plated brass	
WEIGHT	110 g cab	le version	

NO BLUE WARNING: The load can be connected in series to the blue wire or to the brown wire to simulate the NPN or PNP functioning logic.

DIMENSIONS (mm)







8 = 24-230 Vac - 2 wires NC

9 = 10-30 Vac - 2 wires NO-NC 0 = 12-30 Vac - 4 wires







MODEL SELECTION TABLE					
CONSTRUCTION	OUTPUT	CONNECTION			
A= shielded standard housing	1 = 10-30 Vdc PNP NO	02 = 500 mm CABLE			
B= shielded short housing	2 = 10-30 Vdc PNP NC	03 = 2 m CABLE			
C= unshielded standard housing	3 = 10-30 Vdc NPN NO	S1 = M8 CONN.			
D= unshielded short housing	4 = 10-30 Vdc NPN NC	S2 = M12 CONN.			
E= shielded standard housing, double operating distance	5 = 10-30 Vdc PNP NO-NC				
F= unshielded standard housing, double operating distance	6 = 10-30 Vdc NPN NO-NC				
G= shielded short housing, double operating distance	7 = 24-230 Vac - 2 wires NO				

DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-12-E9-03	CABLE	ves	standard	95B063800

DIAMETER

04 = 4 mm

05 = 5 mm

08 = 8 mm

12 = 12 mm

18 = 18 mm

30 = 30 mm

H= unshielded short housing, double operating distance

I= shielded standard metal housing

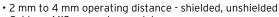
L= unshielded standard metal housing



Ø 12

24÷230 Vac - 2 WIRES NO OR NC OUTPUT





- Cable or M12 connector models
- Very low consumption < 0,7 mA
- Inrush current (20ms) 1.5A
- 350 mA max output



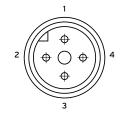
TECHNICAL DATA

	SHIELDED	UNSHIELDED
OPERATING DISTANCE (Sn)	2 mm	4 mm
POWER SUPPLY	24 ÷ 230 Va	c (-15/+10%)
RIPPLE	50 ÷	60 Hz
HYSTERESIS	< 1	10%
OUTPUT CURRENT	350 m	ıA max.
OUTPUT CURRENT	20 m	A min.
INRUSH CURRENT	1,5 A ma	x. (20 ms)
CONSUMPTION	< 0,	7 mA
SATURATION VOLTAGE	< 5 V (I =	= 100 mA)
INDICATORS	Yello	w LED
SWITCHING FREQUENCY	12	! Hz
DELAY AT POWER ON	≤30	00 ms
REPEATABILITY	≤.	3%
SHORT CIRCUIT PROTECTION	-25 ÷	+70 °C
MECHANICAL PROTECTION	IP	67
CONNECTIONS	2 m cable (2	2 x 0.25 mm ²)
HOUSING MATERIAL	Nickel-pl	ated brass
WEIGHT	110 g cable version	
	60 g M12 co	nnector cable

CONNECTIONS 24 ÷ 230 Vac BLUE N

Warning: Output short circuit are not possible. Wrong supply cable connections can damage the sensor. Therefore sensors whose output status is short-circuited will not be replaced under warranty.

M12 CONNECTOR

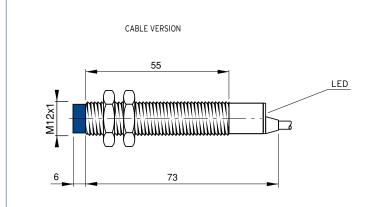


View of quadripole male connector.

CONFIGURATION

Outputs	PIN numbers				
Outputs	1	2	3	4	
(NO or NC)	L		N		

DIMENSIONS (mm)



64 LED x 4 1 2 3 9

M12 CONNECTOR VERSION













MODEL SELECTION TABLE					
DIAMETER	CONSTRUCTION	OUTPUT	CONNECTION		
04 = 4 mm	A= shielded standard housing	1 = 10-30 Vdc PNP NO	02 = 500 mm CABLE		
05 = 5 mm	B= shielded short housing	2 = 10-30 Vdc PNP NC	03 = 2 m CABLE		
08 = 8 mm	C= unshielded standard housing	3 = 10-30 Vdc NPN NO	S1 = M8 CONN.		
12 = 12 mm	D= unshielded short housing	4 = 10-30 Vdc NPN NC	S2 = M12 CONN.		
18 = 18 mm	E= shielded standard housing, double operating distance	5 = 10-30 Vdc PNP NO-NC			
30 = 30 mm	F= unshielded standard housing, double operating distance	6 = 10-30 Vdc NPN NO-NC			
	G= shielded short housing, double operating distance	7 = 24-230 Vac - 2 wires NO			
	H= unshielded short housing, double operating distance	8 = 24-230 Vac - 2 wires NC			
	I= shielded standard metal housing	9 = 10-30 Vac - 2 wires NO-NC			
	L= unshielded standard metal housing	0 = 12-30 Vac - 4 wires			

		PRODUCT TA	BLE	
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-12-A7-03	2 m CABLE	yes	standard	95B062820
IS-12-A7-S2	M12 CONNECTOR	yes	standard	95B062830
IS-12-A8-03	2 m CABLE	yes	standard	95B062840
IS-12-A8-S2	M12 CONNECTOR	yes	standard	95B062850
IS-12-C7-03	2 m CABLE	no	standard	95B062940
IS-12-C7-S2	M12 CONNECTOR	no	standard	95B062950
IS-12-C8-03	2 m CABLE	no	standard	95B062960
IS-12-C8-S2	M12 CONNECTOR	no	standard	95B062970



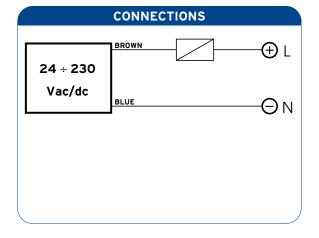
Ø 12 DOUBLE OPERATING DISTANCE 24÷230 Vac/dc - 2 WIRES WIRES NO OR NC OUTPUT

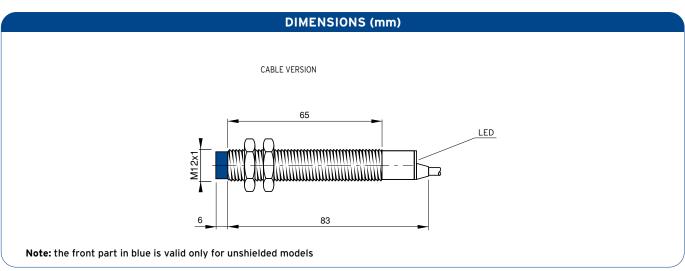


- 4 mm to 8 mm operating distance shielded, unshielded
- Short circuit protection AC/DC
- Cable models
- Inrush current (20ms) 2.5A
- 350mA max output



TECHNICAL DATA			
	SHIELDED	UNSHIELDED	
OPERATING DISTANCE (Sn)	4 mm	8 mm	
POWER SUPPLY	24 ÷ 230 Vca/	dc (-15/+10%)	
RIPPLE	50 ÷	60 Hz	
HYSTERESIS	<1	10%	
OUTPUT CURRENT	350 m	A max.	
OUTPUT CURRENT	4 m <i>F</i>	A min.	
INRUSH CURRENT	2,5 A ma	x. (20 ms)	
CONSUMPTION	< 1,5 mA < 6 V (I=100mA) Yellow LED		
SATURATION VOLTAGE			
INDICATORS			
SWITCHING FREQUENCY	12	! Hz	
DELAY AT POWER ON	≤ 30	00 ms	
REPEATABILITY	Present (mar	nual resetting)	
OPERATING TEMPERATURE	≤	3%	
SHORT CIRCUIT PROTECTION	-25 ÷	+70 °C	
MECHANICAL PROTECTION	IP	67	
CONNECTIONS	2 m cable (2	2 x 0.25 mm²)	
HOUSING MATERIAL	Nickel-pl	ated brass	
WEIGHT	110 g cab	ole version	

















MODEL SELECTION TABLE					
DIAMETER	CONSTRUCTION	OUTPUT	CONNECTION		
04 = 4 mm	A= shielded standard housing	1 = 10-30 Vdc PNP NO	02 = 500 mm CABLE		
05 = 5 mm	B= shielded short housing	2 = 10-30 Vdc PNP NC	03 = 2 m CABLE		
08 = 8 mm	C= unshielded standard housing	3 = 10-30 Vdc NPN NO	S1 = M8 CONN.		
12 = 12 mm	D= unshielded short housing	4 = 10-30 Vdc NPN NC	S2 = M12 CONN.		
18 = 18 mm	E= shielded standard housing, double operating distance	5 = 10-30 Vdc PNP NO-NC			
30 = 30 mm	F= unshielded standard housing, double operating distance	6 = 10-30 Vdc NPN NO-NC			
	G= shielded short housing, double operating distance	7 = 24-230 Vac - 2 wires NO			
	H= unshielded short housing, double operating distance	8 = 24-230 Vac - 2 wires NC			
	I= shielded standard metal housing	9 = 10-30 Vac - 2 wires NO-NC			
	L= unshielded standard metal housing	0 = 12-30 Vac - 4 wires			

		PRODUCT TABLE		
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-12-E7-03	CABLE	yes	standard	95B063890



Ø 12

10÷30 Vdc - 3 WIRES PNP OUTPUT



- Stainless steel housing
- Cable or M12 connector models Output status LED





TECHNICAL DATA

	SHIELDED	UNSHIELDED
OPERATING DISTANCE (Sn)	2 mm	4 mm
POWER SUPPLY	10 ÷ 30 Vdc	(-15 / +10%)
RIPPLE	≤1	0%
HYSTERESIS	<1	5%
OUTPUT CURRENT	200 m	A max.
CONSUMPTION	< 10 mA	@ 24 Vdc
SATURATION VOLTAGE	< 1.5 V (I = 100 mA)	
INDICATORS	Yello	w LED
SWITCHING FREQUENCY	2000 Hz 1000 Hz	
REPEATABILITY	≤ '	1%
SHORT CIRCUIT PROTECTION	Present (se	lf-resetting)
OPERATING TEMPERATURE	- 25 ÷	+70 °C
MECHANICAL PROTECTION	IP67	
ACTIVE FACE MATERIAL	Stainless steel	
HOUSING MATERIAL	Stainless steel	
WEIGHT	60 g cab	le version

CONNECTIONS BROWN \oplus **PNP** Θ



CONFIGURATION

Outputs	PIN numbers			
	1	2	3	4
NO	+		_	NO

DIMENSIONS (mm) SHIELDED UNSHIELDED 42 LED 34 LED M12x1 16 16 68 68













MODEL SELECTION TABLE								
DIAMETER	CONSTRUCTION	OUTPUT	CONNECTION					
04 = 4 mm	A= shielded standard housing	1 = 10-30 Vdc PNP NO	02 = 500 mm CABLE					
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12 = 12 mm	D= unshielded short housing	4 = 10-30 Vdc NPN NC	S2 = M12 CONN.					
18 = 18 mm	E= shielded standard housing, double operating distance	5 = 10-30 Vdc PNP NO-NC						
30 = 30 mm F= unshielded standard housing, double operating distance G= shielded short housing, double operating distance		6 = 10-30 Vdc NPN NO-NC						
		7 = 24-230 Vac - 2 wires NO						
	H= unshielded short housing, double operating distance	8 = 24-230 Vac - 2 wires NC						
I= shielded standard metal housing		9 = 10-30 Vac - 2 wires NO-NC						
	L= unshielded standard metal housing	0 = 12-30 Vac - 4 wires						

		PRODUCT TABLE			
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE	
IS-12-L5-S2	M12	no	standard	95B063870	

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