Ø 30

10÷30 Vdc - 3 WIRES NPN OR PNP OUTPUT





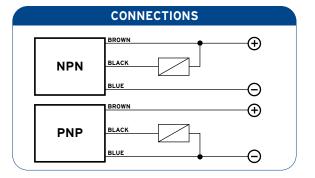


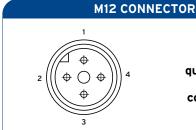
- 10 mm to 15 mm operating distance shielded, unshielded Short housing models
- Cable or M12 connector models
- Output status LED

TECHNICAL DATA

	SHIELDED	UNSHIELDED		
OPERATING DISTANCE (Sn)	10 mm	15 mm		
POWER SUPPLY	10 ÷ 30 Vdc	(-15 / +10%)		
RIPPLE	≤1	0%		
HYSTERESIS	< 1	10%		
OUTPUT CURRENT	200 m	A max.		
CONSUMPTION	< 10 mA	@ 24 Vdc		
SATURATION VOLTAGE	< 1.8 V (I	= 100 mA)		
INDICATORS	Yellow LED			
SWITCHING FREQUENCY	300 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-pl	ated brass		
WEIGHT	210 g cak	ole version		
	170 g M12 co	nnector cable		

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



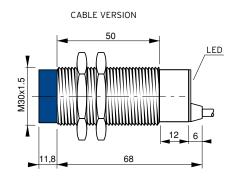


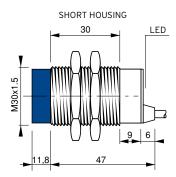
View of quadripole male connector

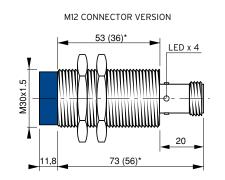
CONFIGURATION

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

DIMENSIONS (mm)







(*) The dimensions in brackets refer to short housing models Note: the front part in blue is valid only for unshielded models













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. 5 = 10-30 Vdc PNP NO-NC 18 = 18 mm 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 TABLE		
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-30-A1-03	2 m CABLE	yes	standard	95B061420
IS-30-A1-S2	M12 CONNECTOR	yes	standard	95B061430
IS-30-A2-03	2 m CABLE	yes	standard	95B061440
IS-30-A2-S2	M12 CONNECTOR	yes	standard	95B061450
IS-30-A3-03	2 m CABLE	yes	standard	95B061380
IS-30-A3-S2	M12 CONNECTOR	yes	standard	95B061390
IS-30-A4-03	2 m CABLE	yes	standard	95B061400
IS-30-A4-S2	M12 CONNECTOR	yes	standard	95B061410
IS-30-B1-03	2 m CABLE	yes	short	95B062220
IS-30-B1-S2	M12 CONNECTOR	yes	short	95B062230
IS-30-B2-03	2 m CABLE	yes	short	95B062240
IS-30-B2-S2	M12 CONNECTOR	yes	short	95B062250
IS-30-B3-03	2 m CABLE	yes	short	95B062180
IS-30-B3-S2	M12 CONNECTOR	yes	short	95B062190
IS-30-B4-03	2 m CABLE	yes	short	95B062200
IS-30-B4-S2	M12 CONNECTOR	yes	short	95B062210
IS-30-C1-03	2 m CABLE	no	standard	95B061820
IS-30-C1-S2	M12 CONNECTOR	no	standard	95B061830
IS-30-C2-03	2 m CABLE	no	standard	95B061840
IS-30-C2-S2	M12 CONNECTOR	no	standard	95B061850
IS-30-C3-03	2 m CABLE	no	standard	95B061780
IS-30-C3-S2	M12 CONNECTOR	no	standard	95B061790
IS-30-C4-03	2 m CABLE	no	standard	95B061800
IS-30-C4-S2	M12 CONNECTOR	no	standard	95B061810
IS-30-D1-03	2 m CABLE	no	short	95B062620
IS-30-D1-S2	M12 CONNECTOR	no	short	95B062630
IS-30-D2-03	2 m CABLE	no	short	95B062640
IS-30-D2-S2	M12 CONNECTOR	no	short	95B062650
IS-30-D3-03	2 m CABLE	no	short	95B062580
IS-30-D3-S2	M12 CONNECTOR	no	short	95B062590
IS-30-D4-03	2 m CABLE	no	short	95B062600
IS-30-D4-S2	M12 CONNECTOR	no	short	95B062610



Ø 30 DOUBLE OPERATING DISTANCE

10÷30 Vdc - 3 WIRES NPN OR PNP OUTPUT

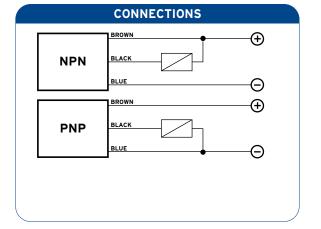
- 15 mm to 20 mm operating distance shielded, unshielded
- Short housing models
- Cable or M12 connector models
- Output status LED



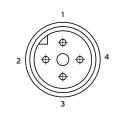


TECHNICAL DATA

	SHIELDED	UNSHIELDED			
OPERATING DISTANCE (Sn)	15 mm	20 mm			
POWER SUPPLY	10 ÷ 30 Vdc	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	200	200 Hz			
DELAY AT POWER ON	≤7:	≤ 75 ms			
REPEATABILITY	≤:	3%			
SHORT CIRCUIT PROTECTION	Present (se	lf-resetting)			
PROTECTION CIRCUIT	Against polarity reve	ersal - inductive loads			
OPERATING TEMPERATURE	- 25 ÷	+70 °C			
MECHANICAL PROTECTION	IP	67			
CONNECTIONS	2 m cable (3	x 0.25 mm ²)			
HOUSING MATERIAL	Nickel-pla	ated brass			
WEIGHT	210 g cab	le version			
	170 g M12 cor	nector version			



M12 CONNECTOR

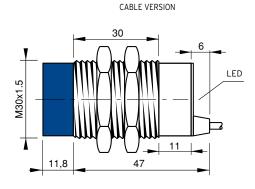


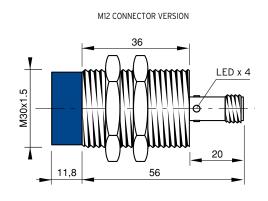
View of quadripole male connector

CONFIGURATION

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

DIMENSIONS (mm)

















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 TAI	BLE	
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-30-G1-03	CABLE	yes	short	95B063680
IS-30-G1-S2	M12	yes	short	95B063690
IS-30-G2-03	CABLE	yes	short	95B063700
IS-30-G2-S2	M12	yes	short	95B063710
IS-30-G3-03	CABLE	yes	short	95B063640
IS-30-G3-S2	M12	yes	short	95B063650
IS-30-G4-03	CABLE	yes	short	95B063660
IS-30-G4-S2	M12	yes	short	95B063670
IS-30-H1-03	CABLE	no	short	95B063760
IS-30-H1-S2	M12	no	short	95B063770
IS-30-H2-03	CABLE	no	short	95B063780
IS-30-H2-S2	M12	no	short	95B063790
IS-30-H3-03	CABLE	no	short	95B063720
IS-30-H3-S2	M12	no	short	95B063730
IS-30-H4-03	CABLE	no	short	95B063740
IS-30-H4-S2	M12	no	short	95B063750



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



- 15 mm to 20 mm operating distance shielded, unshielded
- Short housing
- Cable or M12 connector models
- 200mA NPN or PNP
- Output status LED





TECHNICAL DATA

	SHIELDED	UNSHIELDED		
OPERATING DISTANCE (Sn)	15 mm	20 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 (l	= 100 mA)		
INDICATORS	Yello	Yellow LED		
SWITCHING FREQUENCY	200	200 Hz		
DELAY AT POWER ON	≤7:	≤ 75 ms		
REPEATABILITY	≤:	3%		
SHORT CIRCUIT PROTECTION	Present (se	lf-resetting)		
PROTECTION CIRCUIT	Against polarity reve	ersal - inductive loads		
OPERATING TEMPERATURE	- 25 ÷	+70 °C		
MECHANICAL PROTECTION	IP	67		
CONNECTIONS	2 m cable (3	x 0.25 mm ²)		
HOUSING MATERIAL	Nickel-pla	ated brass		
WEIGHT	210 g cab	ole version		
	170 g M12 cor	nnector version		

NPN BLACK WHITE BLUE BROWN HITE BLUE BROWN HITE BLACK WHITE BLACK BLUE PNP NO-NC BLUE BROWN HITE BLACK BLUE NO NC NC

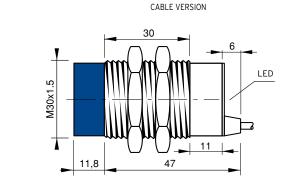
M12 CONNECTOR

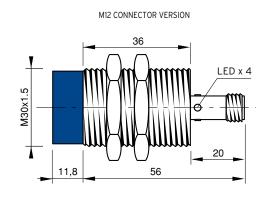
View of quadripole male connector

CONFIGURATION

Outputs	PIN numbers			
	1	2	3	4
(NO + NC)	+	NC	_	NO

DIMENSIONS (mm)

















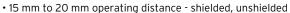
MODEL SELECTION TABLE					
DIAMETER	CONSTRUCTION	OUTPUT	CONNECTION		
04 = 4 mm	A= shielded standard housing	1 = 10-30 Vdc PNP NO	02 = 500 mm CABLE		
05 = 5 mm	B= shielded short housing	2 = 10-30 Vdc PNP NC	03 = 2 m CABLE		
08 = 8 mm	C= unshielded standard housing	3 = 10-30 Vdc NPN NO	S1 = M8 CONN.		
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 TAI	BLE	
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-30-G5-03	CABLE	yes	short	95B063820
IS-30-G5-S2	M12	yes	short	95B063830



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





- Programmable outputs: NPN/PNP, NO or NC
- Cable models
- Nickel-plated brass
- Output status LED
- 200 mA max output

	J	211	63	,
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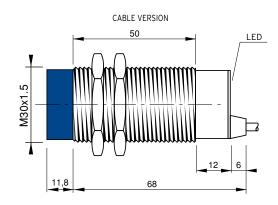
TECHNICAL DATA

	SHIELDED	UNSHIELDED
OPERATING DISTANCE (Sn)	15 mm	20 mm
POWER SUPPLY	12 ÷ 30 Vdc (-15/+10%)	
RIPPLE	≤10%	
HYSTERESIS	< 10%	
OUTPUT	NPN or PNP (selectable)	
CONTACT	NO or NC (selectable)	
OUTPUT CURRENT	200 mA max.	
CONSUMPTION	< 1.2 mA @ 24 Vdc	
SATURATION VOLTAGE	< 1,8 V (I = 100 mA)	
INDICATORS	Yellow LED	
SWITCHING FREQUENCY	200 Hz	
DELAY AT POWER ON	≤ 50 ms	
REPEATABILITY	≤3%	
SHORT CIRCUIT PROTECTION	Present (self-resetting)	
PROTECTIONS CIRCUIT	Against polarity reversal - inductive loads	
OPERATING TEMPERATURE	- 25 ÷ +70 °C	
MECHANICAL PROTECTION	IP67	
CONNECTIONS	2 m cable (4 x 0.25 mm ²)	
HOUSING MATERIAL	Nickel-plated brass	
WEIGHT	210 g cal	ole version
	170 g M12 co	onnector cable

⁽¹⁾ Device marking 🗟 II 3D IP67 T6X.

CONNECTIONS NPN WHITE DACK BLUE NPN BLACK BROWN NO BLUE NPN WHITE DELACK BROWN NC BROWN NC

DIMENSIONS (mm)















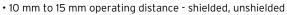
MODEL SELECTION TABLE CONSTRUCTION DIAMETER OUTPUT CONNECTION A= shielded standard housing 04 = 4 mm 1 = 10-30 Vdc PNP NO 02 = 500 mm CABLE 05 = 5 mm B= shielded short housing 2 = 10-30 Vdc PNP NC 03 = 2 m CABLE 08 = 8 mmC= unshielded standard housing 3 = 10-30 Vdc NPN NO S1 = M8 CONN. 12 = 12 mm D= unshielded short housing 4 = 10-30 Vdc NPN NC S2 = M12 CONN. 5 = 10-30 Vdc PNP NO-NC 18 = 18 mm 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 TABLE			
DESCRIPTION	CONNECTION	SHIELDED	HOUSING	ORDER CODE
IS-30-E0-03	CABLE	yes	standard	95B063860



24÷230 Vac - 2 WIRES WIRES NO OR NC OUTPUT





- · Cable or M12 connector models
- Very low consumption < 0,7 mA Inrush current (20ms) 1.5A
- 300mA max output



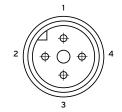
TECHNICAL DATA

	SHIELDED	UNSHIELDED	
OPERATING DISTANCE (Sn)	10 mm	15 mm	
POWER SUPPLY	24 ÷ 230 Vac (-15/+10%)		
NET FREQUENCY	50 ÷ 60 Hz		
HYSTERESIS	<1	0%	
OUTPUT CURRENT	300 m	A max.	
OUTPUT CURRENT	20 m	20 mA min.	
INRUSH CURRENT	1,5 A ma:	x. (20 ms)	
RESIDUAL CURRENT	< 0,7	⁷ mA	
SATURATION VOLTAGE	< 5 V (I = 100 mA)		
INDICATORS	Yellow LED		
SWITCHING FREQUENCY	12 Hz		
DELAY AT POWER ON	≤ 300 ms		
REPEATABILITY	≤3%		
OPERATING TEMPERATURE	-25 ÷ +70 °C		
MECHANICAL PROTECTION	IP67		
CONNECTIONS	2 m cable (2 x 0.25 mm²)		
HOUSING MATERIAL	Nickel-pla	Nickel-plated brass	
WEIGHT	210 g cab	210 g cable version	
	170 g M12 co	nnector cable	

CONNECTIONS BROWN 24 ÷ 230 Vac ЭN

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

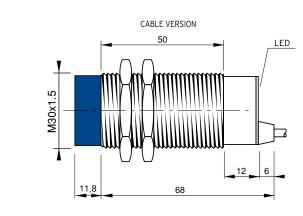


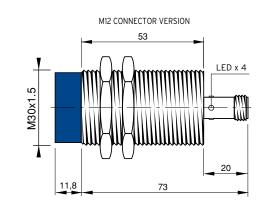
View of quadripole male connector.

CONFIGURATION

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

DIMENSIONS (mm)

















	MODEL SELECTION TABLE			
DIAMETER	CONSTRUCTION	ОИТРИТ	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			
	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-30-A7-03	CABLE 2m	yes	standard	95B062900
IS-30-A7-S2	M12 CONNECTOR	yes	standard	95B062910
IS-30-A8-03	CABLE 2m	yes	standard	95B062920
IS-30-A8-S2	M12 CONNECTOR	yes	standard	95B062930
IS-30-C7-03	CABLE 2m	no	standard	95B063020
IS-30-C7-S2	M12 CONNECTOR	no	standard	95B063030
IS-30-C8-03	CABLE 2m	no	standard	95B063040
IS-30-C8-S2	M12 CONNECTOR	no	standard	95B063050



Ø 30 DOUBLE OPERATING DISTANCE 24÷230 Vac/dc - 2 WIRES NO OR NC OUTPUT



- 15 mm to 20 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)	15 mm	20 mm		
POWER SUPPLY	24 ÷ 230 Vac/	24 ÷ 230 Vac/dc (-15/+10%)		
NET FREQUENCY	50 ÷	50 ÷ 60 Hz		
HYSTERESIS	< 1	< 10%		
OUTPUT CURRENT	350 m	350 mA max.		
OUTPUT CURRENT	4 m/	4 mA min.		
INRUSH CURRENT	2,5 A ma	2,5 A max. (20 ms)		
RESIDUAL CURRENT	< 1,	< 1,5 mA		
SATURATION VOLTAGE	< 6 V (I=	< 6 V (I=100mA)		
INDICATORS	Yellow LED			
SWITCHING FREQUENCY	12 Hz			
DELAY AT POWER ON	≤ 30	≤ 300 ms		
SHORT CIRCUIT PROTECTION	Present (se	Present (self-resetting)		
REPEATABILITY	≤ 3%			
OPERATING TEMPERATURE	-25 ÷	-25 ÷ +70 °C		
MECHANICAL PROTECTION	IP	IP67		
CONNECTIONS	2 m cable (2	2 m cable (2 x 0.25 mm²)		
HOUSING MATERIAL	Nickel-pl	Nickel-plated brass		
WEIGHT	210 g cable version			

