



INDUCTIVE SENSORS

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

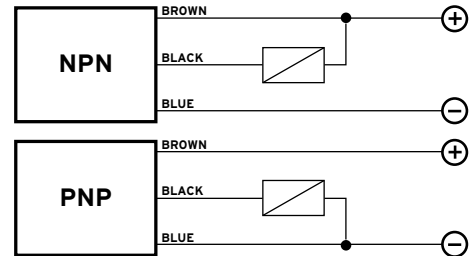
IS Series



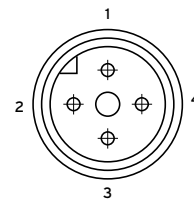
TECHNICAL DATA

	SHIELDED	UNSHIELDED
OPERATING DISTANCE (Sn)	4 mm	8 mm
POWER SUPPLY	10 ÷ 30 Vdc (-15 / +10%)	
RIPPLE	≤ 10%	
HYSTERESIS	< 10%	
OUTPUT CURRENT	200 mA max.	
CONSUMPTION	< 10 mA @ 24 Vdc	
SATURATION VOLTAGE	< 1.2 V (I = 100 mA)	
INDICATORS	Yellow LED	
SWITCHING FREQUENCY	500 Hz	
DELAY AT POWER ON	≤ 75 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 (3 x 0.25 mm ²)	
HOUSING MATERIAL	Nickel-plated brass	
WEIGHT	110 g cable version 60 g M12 connector version	

CONNECTIONS



M12 CONNECTOR

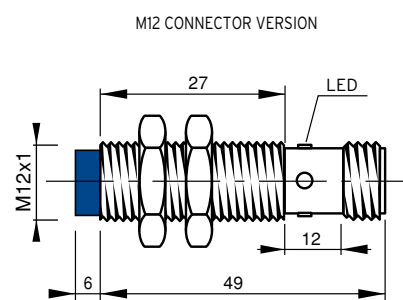
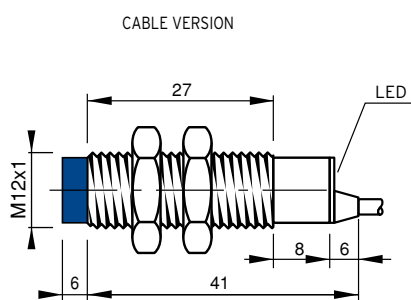


View of
quadripole
male
connector

CONFIGURATION

Outputs	PIN numbers			
	1	2	3	4
(NO or NC)	+		-	NO/NC

DIMENSIONS (mm)



Note: the front part in blue is valid only for unshielded models



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

INDUCTIVE SENSORS

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

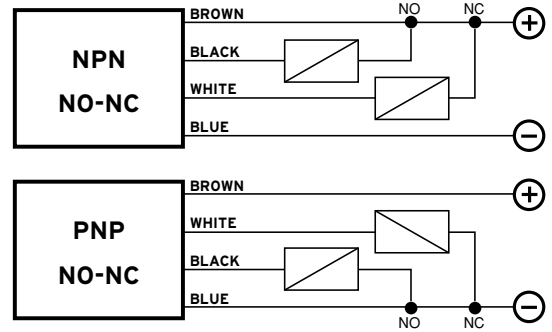
IS Series



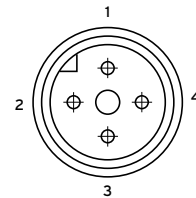
TECHNICAL DATA

	SHIELDED	UNSHIELDED
OPERATING DISTANCE (Sn)	4 mm	8 mm
POWER SUPPLY	10 ÷ 30 Vdc (-15 / +10%)	
RIPPLE	≤ 10%	
HYSTERESIS	< 10%	
OUTPUT CURRENT	200 mA max.	
CONSUMPTION	< 10 mA @ 24 Vdc	
SATURATION VOLTAGE	< 1.2 V (I = 100 mA)	
INDICATORS	Yellow LED	
SWITCHING FREQUENCY	500 Hz	
DELAY AT POWER ON	75 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 (3 x 0.25 mm ²)	
HOUSING MATERIAL	Nickel-plated brass	
WEIGHT	110 g cable version 60 g M12 connector version	

CONNECTIONS



M12 CONNECTOR

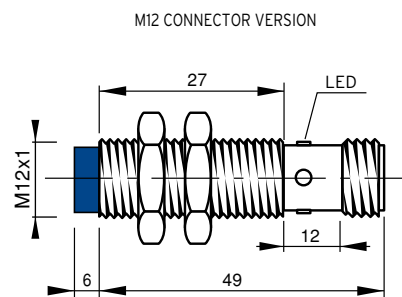
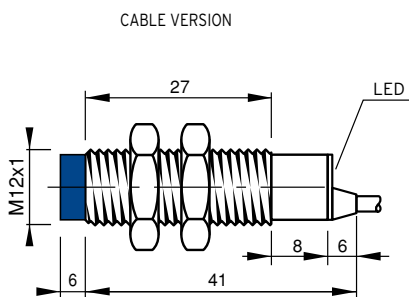


View of
quadripole
male
connector

CONFIGURATION

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

DIMENSIONS (mm)



Note: the front part in blue is valid only for unshielded models



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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	L= unshielded standard metal housing	0 = 12-30 Vac - 4 wires	

PRODUCT TABLE

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