



SENSEABLETM

The New Family of General Purpose Economical Sensors from TR Electronic

Inductive Ring Sensors

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Thanks for choosing TR Electronic. Did you know TR Electronic is a major manufacturer and distributor of automation components, sensors and Industrial Ethernet solutions. This catalogue represents only a selection of the presence detections options available to you, under our SENSEable brand. SENSEable is our brand of economical, general purpose sensors with the quality guarantee you've come to expect from TR Electronic.

TR Electronic also has solutions for:



Rotary and Angular Feedback



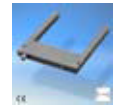
Linear Displacement Transducers



Laser Distance



Intelligent Drives



Photoelectrics



Motion Sensors



Color Detection



Cables, Mounting Hardware and Accessories



IP69K Wash-down Sensors

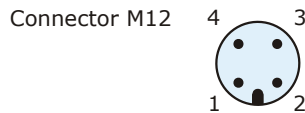
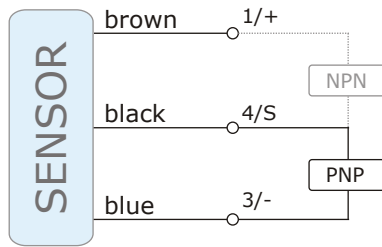


Safety Light Curtains

SENSEABLE™

Since 1989, TR Electronic North America has become an industry leader in manufacturing and supporting position feedback, drive technology and sensor solutions world-wide. Through its complete line of absolute encoders, linear measurement systems and industrial sensors, TR Electronic is able to deliver exceptional results every time.

Output Schematics



Not to be used for Safety Applications

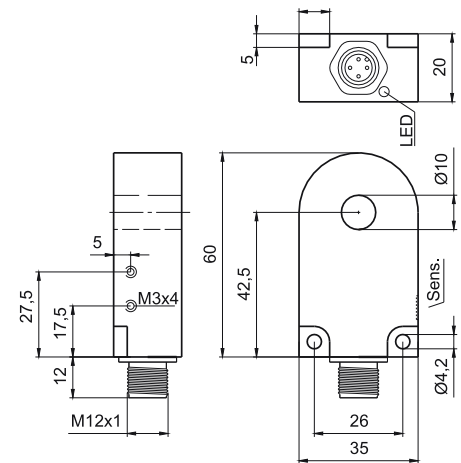
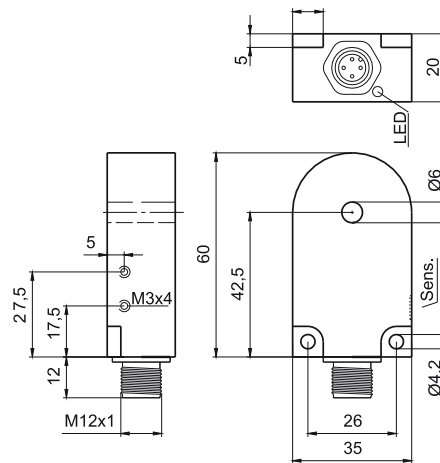
Ø 6 mm

Ø 10 mm



Ø 1.0 mm

Ø 1.5 mm



SPECIFICATIONS

	Ø 6 mm	Ø 10 mm
Ring Diameter	Ø 6 mm	Ø 10 mm
Resolution, adjustable	> Ø1 mm	> Ø1.5 mm
Operating Voltage	10... 30VDC	10... 30VDC
Current Consumption	< 10 mA	< 10 mA
Output Current	200 mA	200 mA
Voltage Drop	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA
Object Speed - Min. / Max.	- 45 mS (147 ft/s)	- 45 mS (147 ft/s)
Response / Release Time	0.5 / 100 ms	0.5 / 100 ms
Pulse Stretching	100 ms	100 ms
Operating Temperature	-25... +70°C	-25... +70°C
Isolation Voltage		
Protection Class	IP67	IP67
Housing / Ring Material	PBT	PBT
Mounting Distance to Metal	> 5 mm	> 5 mm

Article Code

PNP, NO	IR06S PO100/M12	IR10S PO100/M12
PNP, NC	IR06S PC100/M12	IR10S PC100/M12
NPN, NO	IR06S NO100/M12	IR10S NO100/M12
NPN, NC	IR06S NC100/M12	IR10S NO100/M12

SENSEABLE™ Cabling

TR Electronic is your source for cables, accessories, and hardware for any sensor.

Build your cable part number:

		M					
	M8 3 wire	83					
	M8 4 wire	84					
	M12 3 wire	123					
	M12 4 wire	124					
	M12 5 wire	125					
	Female	F					
	Male	M					
	Female - straight	A					
	Radial - 90 degree	R					
Options	LED Output	Y					
	No LED	N					
Cable Length	2 Meter	2					
	5 Meter	5					
	10 Meter	10					

Example:

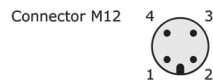
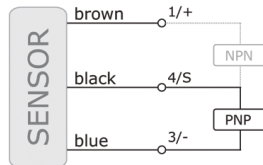
M83FAN5 = 5 Meter Cable, M8 with 3 Poles/Pins, Female, Axial Connection, with NO LED

For cable quotes and datasheets, email us at customercare@trelectronic.com
 Custom lengths and configurations are available on request.

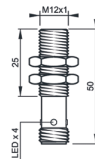
SENSEABLE™

Value Prox

Output Schematics



M12



SPECIFICATIONS:

Sensing Distance	4mm - Shielded
Operating Voltage	10...30 VDC, 3-wire
Current Consumption	<8 mA
Output Current	200 mA
Voltage Drop	< 1.5 V @ 200 mA
Switching Frequency	1000 Hz NPN / 500 Hz PNP
Repeatability	< 1 % (Sn)
Hysteresis	3...15%
Opening Temperature	-25...75 °C
Protection Class	IP67
Sensing Face Material	POM
Housing Material	Nickel Plated Brass
Connected	M12, 3-pole
Operating-LED	Incorporated

Pricing and availability subject to change
Minimum order quantities may apply

Article Code:

3-wire NO, PNP	IPS12 S4PO50 / M12
3-wire NO, NPN	IPS12 S4NO50 / M12

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SENSEABLE™ about the environment 