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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.

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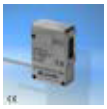
Photoelectrics


Motion Sensors


Color Detection

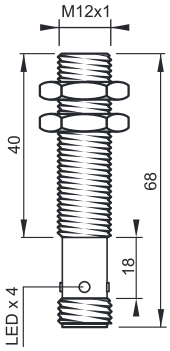
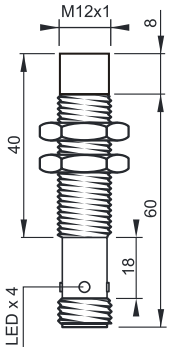
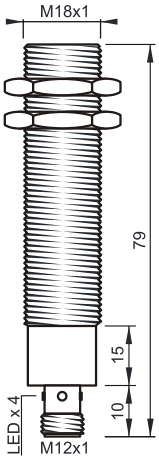
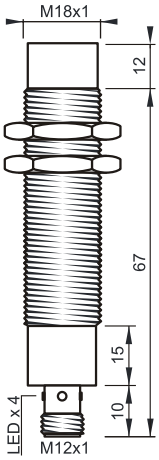

Cables, Mounting Hardware and Accessories


IP69K Wash-down Sensors

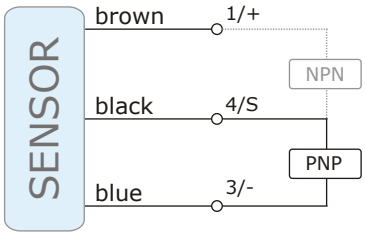

Safety Light Curtains

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.

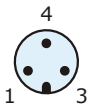
	M12	M12	M18	M18
				
	2 mm	4 mm	5 mm	8 mm
				

Output Schematics



Connector M12

Connector M8

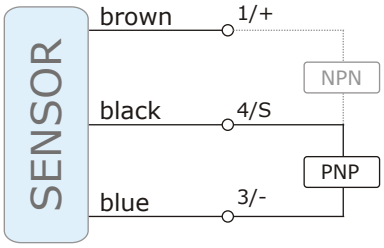


Not to be used for Safety Applications

SPECIFICATIONS

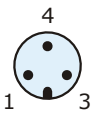
	M12x1 - Ferrous	M12x1 - Ferrous	M18x1 - Ferrous	M18x1 - Ferrous
Sensing Distance	2 mm - Shielded	4 mm - Unshielded	5 mm - Shielded	8 mm - Unshielded
	See Article Code	See Article Code	See Article Code	See Article Code
Operating Voltage	10…30 VDC, 3-wire	10…30 VDC, 3-wire	10…30 VDC, 3-wire	10…30 VDC, 3-wire
Current Consumption	< 8 mA	< 8 mA	< 8 mA	< 8 mA
Output Current	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting
Voltage Drop	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA
Switching Frequency	2000 Hz	1000 Hz	1000 Hz	500 Hz
Repeatability	< 1 % (Sn)	< 1 % (Sn)	< 1 % (Sn)	< 1 % (Sn)
{SPECS_5_9}	3…15 %	3…15 %	3…15 %	3…15 %
Operating Temperature	-25…75 °C	-25…75 °C	-25…75 °C	-25…75 °C
Protection Class	IP68, Conn. IP67	IP68, Conn. IP67	IP68, Conn. IP67	IP68, Conn. IP67
Sensing Face Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Housing Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Connected	M12, 3-pole	M12, 3-pole	M12, 3-pole	M12, 3-pole
Operating-LED				
PNP,	IFE12 S2PO68/M12	IFE12 N4PO68/M12	IFE18 S5PO79/M12	IFE18 N8PO79/M12
PNP,	IFE12 S2PC68/M12	IFE12 N4PC68/M12	IFE18 S5PC79/M12	IFE18 N8PC79/M12
	IFE12 S2NO68/M12	IFE12 N4NO68/M12	IFE18 S5NO79/M12	IFE18 N8NO79/M12
	IFE12 S2NC68/M12	IFE12 N4NC68/M12	IFE18 S5NC79/M12	IFE18 N8NC79/M12
	INF12 S2PO68/M12	INF12 N4PO68/M12	INF18 S5PO79/M12	INF18 N8PO79/M12
	INF12 S2PC68/M12	INF12 N4PC68/M12	INF18 S5PC79/M12	INF18 N8PC79/M12
	INF12 S2NO68/M12	IFE12 NNFO68/M12	INF18 S5NO79/M12	IFE18 NNFO79/M12
Recommended Connecting Cable	INF12 S2NC68/M12	INF12 N4NC68/M12	INF18 S5NC79/M12	INF18 N8NC79/M12

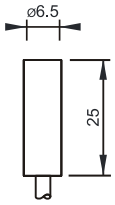
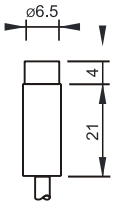
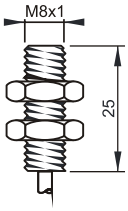
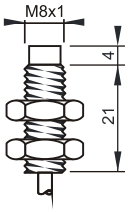
Output Schematics



Connector M12

Connector M8

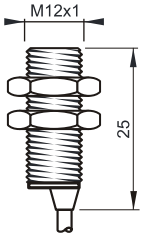
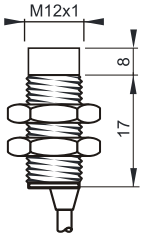
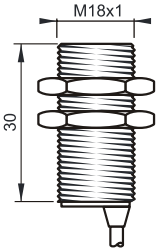
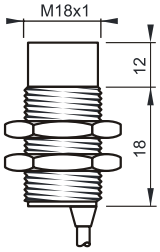
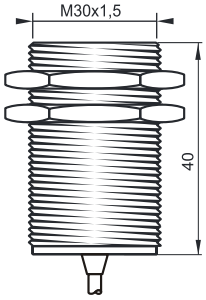
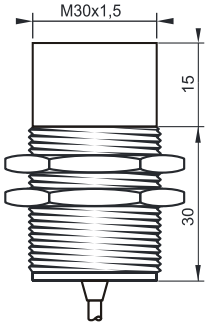


Ø6.5	Ø6.5	M8	M8
			
1 mm	2 mm	1 mm	2 mm
			

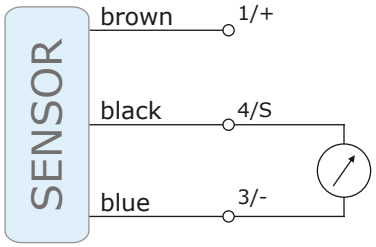
Not to be used for Safety Applications

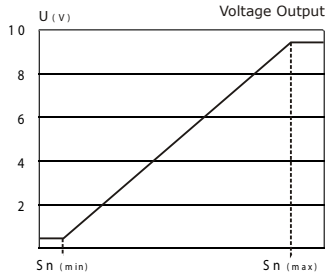
SPECIFICATIONS

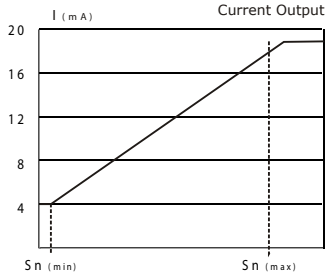
	Ø6.5 mm - NAMUR	Ø6.5 mm - NAMUR	M8 - NAMUR	M8 - NAMUR
Sensing Distance	1 mm - Shielded	2 mm - Unhielded	1 mm - Shielded	2 mm - Unhielded
Amplified	External	External	External	External
Operating Voltage	6… 12 VDC	6… 12 VDC	6… 12 VDC	6… 12 VDC
Current On-State	> 2.1 mA	> 2.1 mA	> 2.1 mA	> 2.1 mA
Current Off-State	< 1.1 mA	< 1.1 mA	< 1.1 mA	< 1.1 mA
Output-Function	by Amplifier	by Amplifier	by Amplifier	by Amplifier
Switching Frequency	2000 Hz	1000 Hz	2000 Hz	1000 Hz
Repeatability	< 1 % (Sn)	< 1 % (Sn)	< 1 % (Sn)	< 1 % (Sn)
Hysteresis	3…15 %	3…15 %	3…15 %	3…15 %
Operating Temperature	-25…75 °C	-25…75 °C	-25…75 °C	-25…75 °C
Protection Class	IP67	IP67	IP67	IP67
Sensing Face Material	PBT	PBT	PBT	PBT
Housing Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Connected	PVC, 3-pole, 2m	PVC, 3-pole, 2m	PVC, 3-pole, 2m	PVC, 3-pole, 2m
Operating-LED	by Amplifier	by Amplifier	by Amplifier	by Amplifier
Article Code				
NAMUR	IPSD6 S1NA20/N2P	IPSD6 N2NA25/N2P	IPS8 S1NA25/N2P	IPS8 N2NA25/N2P
Recommended Connecting Cable	-	-	-	-

M12	M12	M18	M18	M30	M30
					
2 mm	4 mm	5 mm	8 mm	10 mm	15 mm
					
M12 - NAMUR	M12 - NAMUR	M18 - NAMUR	M18 - NAMUR	M30 - NAMUR	M30 - NAMUR
2 mm - Shielded	4 mm - Unhielded	5 mm - Shielded	8 mm - Unhielded	10 mm - Shielded	15 mm - Unhielded
External	External	External	External	External	External
6… 12 VDC	6… 12 VDC	6… 12 VDC	6… 12 VDC	6… 12 VDC	6… 12 VDC
> 2.1 mA	> 2.1 mA	> 2.1 mA	> 2.1 mA	> 2.1 mA	> 2.1 mA
< 1.1 mA	< 1.1 mA	< 1.1 mA	< 1.1 mA	< 1.1 mA	< 1.1 mA
by Amplifier	by Amplifier	by Amplifier	by Amplifier	by Amplifier	by Amplifier
1000 Hz	500 Hz	500 Hz	300 Hz	500 Hz	300 Hz
< 1 % (Sn)	< 1 % (Sn)	< 1 % (Sn)	< 1 % (Sn)	< 1 % (Sn)	< 1 % (Sn)
3…15 %	3…15 %	3…15 %	3…15 %	3…15 %	3…15 %
-25…75 °C	-25…75 °C	-25…75 °C	-25…75 °C	-25…75 °C	-25…75 °C
IP67	IP67	IP67	IP67	IP67	IP67
PBT	PBT	PBT	PBT	PBT	PBT
Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass
PVC, 3-pole, 2m	PVC, 3-pole, 2m	PVC, 3-pole, 2m	PVC, 3-pole, 2m	PVC, 3-pole, 2m	PVC, 3-pole, 2m
by Amplifier	by Amplifier	by Amplifier	by Amplifier	by Amplifier	by Amplifier
IPS12 S1NA25/N2P	IPS12 N2NA25/N2P	IPS18 S5NA30/N2P	IPS18 N8NA30/N2P	IPS30 S10NA40/N2P	IPS30 N15NA45/N2P
-	-	-	-	-	-

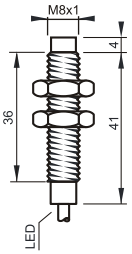
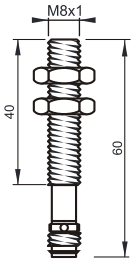
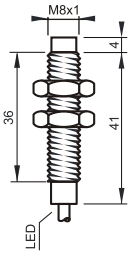
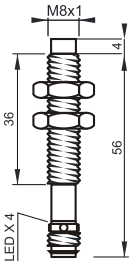
Output Schematics







Not to be used for Safety Applications

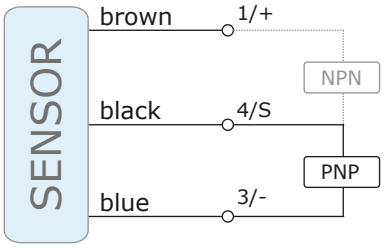
	M8	M8	M8	M8
				
	3 mm	3 mm	6 mm	6 mm
				

SPECIFICATIONS

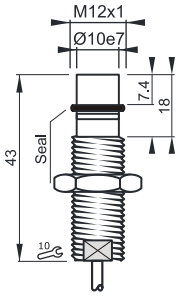
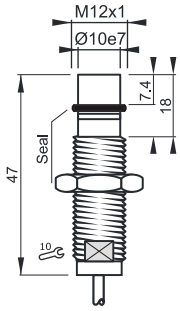
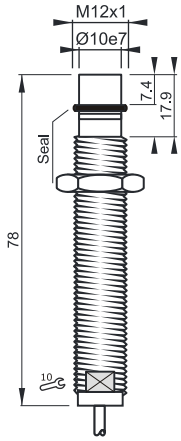
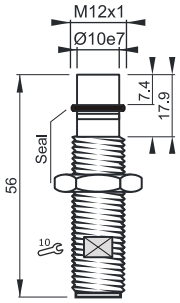
	M8x1 Analog	M8x1 Analog	M8x1 Analog	M8x1 Analog
Measuring Distance	0…3 mm	0…3 mm	0…6 mm	0…6 mm
Einbauart	Shielded	Shielded	Unshielded	Unshielded
Operating Voltage	18…30 VDC	18…30 VDC	18…30 VDC	18…30 VDC
Current Consumption	< 35 mA	< 35 mA	< 35 mA	< 35 mA
Load Resistor	> 2 kOhm	> 2 kOhm	> 2 kOhm	> 2 kOhm
Linearity	< 5 % (Sn)	< 5 % (Sn)	< 5 % (Sn)	< 5 % (Sn)
Repeatability	0.02 mm	0.02 mm	0.02 mm	0.02 mm
Temperature Drift	< 5 % (Sn)	< 5 % (Sn)	< 5 % (Sn)	< 5 % (Sn)
Output Following Frequency	100 Hz	100 Hz	100 Hz	100 Hz
Output Function	See Article Code	See Article Code	See Article Code	See Article Code
Operating Temperature	0…+70 °C	0…+70 °C	0…+70 °C	0…+70 °C
Protection Class	IP67	IP67	IP67	IP67
Housing Material	Chromed Brass	Chromed Brass	Chromed Brass	Chromed Brass
Connected	M8, 3-pole	M8, 3-pole	M8, 3-pole	M8, 3-pole
Operating-LED				
Article Code				
PNP, Analog Voltage (0…10 VDC)	IA8 S3V010/N2P	IA8 S3V010/M8	IA8 N6V010/N2P	IA8 N6V010/M8
Recommended Connecting Cable	M8/3…	M8/3…	M8/3…	M8/3…

Analog Output
Inductive Proximity Switches

Output Schematics



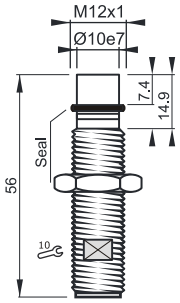
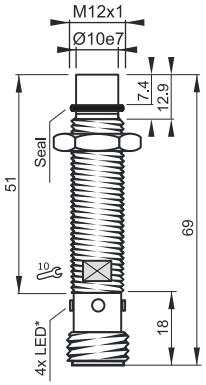
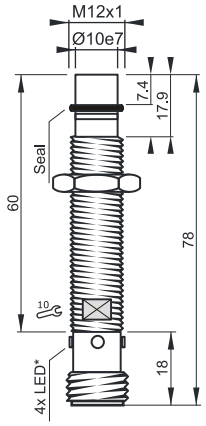
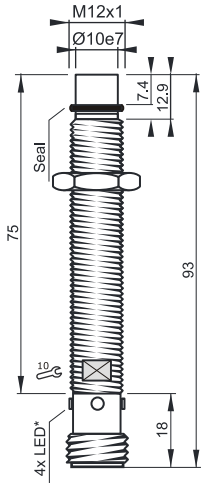
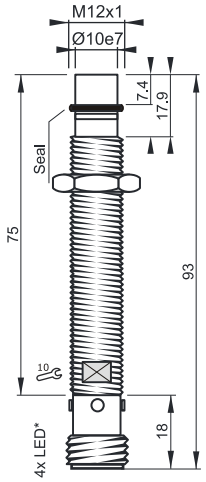
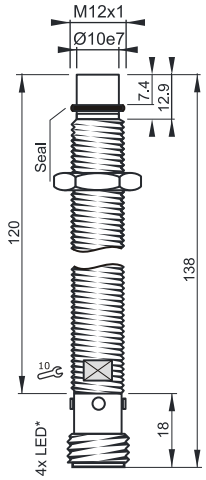
Connector M12

M12	M12	M12	M12
			
	1.5 mm	1.5 mm	1.5 mm
			

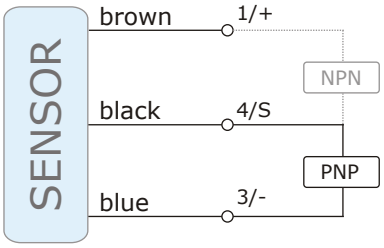
Not to be used for Safety Applications

SPECIFICATIONS

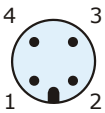
	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar
Sensing Distance	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded
Operating Voltage	10...35 VDC	10...35 VDC	10...35 VDC	10...35 VDC
Current Consumption	< 5 mA	< 5 mA	< 5 mA	< 5 mA
Pressure Tightness	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI
Output Current	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting
Voltage Drop	2.5 V @ 150 mA	2.5 V @ 150 mA	2.5 V @ 150 mA	2.5 V @ 150 mA
Switching Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Repeatability	< 3 %	< 3 %	< 3 %	< 3 %
Hysteresis	< 20 %	< 20 %	< 20 %	< 20 %
Operating Temperature	-25...75 °C	-25...75 °C	-25...75 °C	-25...75 °C
Protection Class	IP69k, IP 67	IP69k, IP 67	IP69k, IP 67	IP69k, IP 67
Sensing Face Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Housing Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Connected	3x0.14, 2m	3x0.14, 2m	3x0.14, 2m	M12x1
Operating-LED				
Article Code				
PNP, NO	IHP12 S1.5PO43/N2P	IHP12 S1.5PO47/N2P	IHP12 S1.5PO78/N2P	IHP12 S1.5PO56/N12
PNP, NC	IHP12 S1.5PC43/N2P	IHP12 S1.5PC47/N2P	IHP12 S1.5PC78/N2P	IHP12 S1.5PC56/N12
NPN, NO	IHP12 S1.5NO43/N2P	IHP12 S1.5NO47/N2P	IHP12 S1.5NO78/N2P	IHP12 S1.5NO56/N12
NPN, NC	IHP12 S1.5NC43/N2P	IHP12 S1.5NC47/N2P	IHP12 S1.5NC78/N2P	IHP12 S1.5NC56/N12
Recommended Connecting Cable	-	-	-	M12/3...

M12	M12	M12	M12	M12	M12
					
1.5 mm	1.5 mm	1.5 mm	1.5 mm	1.5 mm	1.5 mm
					
M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar
1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded
10...35 VDC	10...35 VDC	10...35 VDC	10...35 VDC	10...35 VDC	10...35 VDC
< 5 mA	< 5 mA	< 5 mA	< 5 mA	< 5 mA	< 5 mA
500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI
200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting
2.5 V @ 150 mA	2.5 V @ 150 mA	2.5 V @ 150 mA	2.5 V @ 150 mA	2.5 V @ 150 mA	2.5 V @ 150 mA
50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
< 3 %	< 3 %	< 3 %	< 3 %	< 3 %	< 3 %
< 20 %	< 20 %	< 20 %	< 20 %	< 20 %	< 20 %
-25...75 °C	-25...75 °C	-25...75 °C	-25...75 °C	-25...75 °C	-25...75 °C
IP69k, IP 67	IP69k, IP 67	IP69k, IP 67	IP69k, IP 67	IP69k, IP 67	IP69k, IP 67
Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
M12x1	M12x1	M12x1	M12x1	M12x1	M12x1
IHP12 S1.5PO57/N12	IHP12 S1.5PO69/N12	IHP12 S1.5PO78/N12	IHP12 S1.5PO93/N12	IHP12 S1.5PO94/N12	IHP12 S1.5PO138/N12
IHP12 S1.5PC57/N12	IHP12 S1.5PC69/N12	IHP12 S1.5PC78/N12	IHP12 S1.5PC93/N12	IHP12 S1.5PC94/N12	IHP12 S1.5PC138/N12
IHP12 S1.5NO57/N12	IHP12 S1.5NO69/N12	IHP12 S1.5NO78/N12	IHP12 S1.5NO93/N12	IHP12 S1.5NO94/N12	IHP12 S1.5NO138/N12
IHP12 S1.5NC57/N12	IHP12 S1.5NC69/N12	IHP12 S1.5NC78/N12	IHP12 S1.5NC93/N12	IHP12 S1.5NC94/N12	IHP12 S1.5NC138/N12
M12/3...	M12/3...	M12/3...	M12/3...	M12/3...	M12/3...

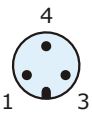
Output Schematics



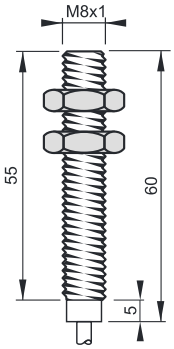
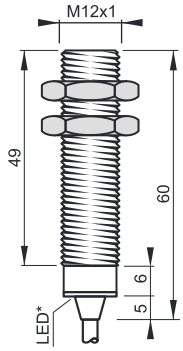
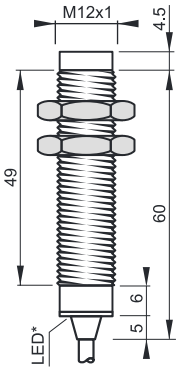
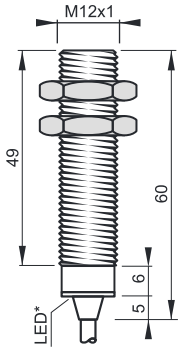
Connector M12



Connector M8



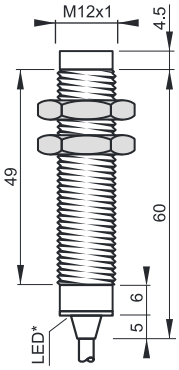
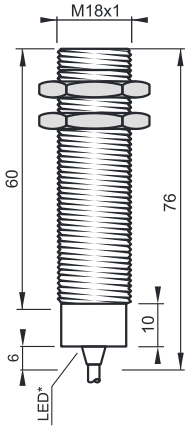
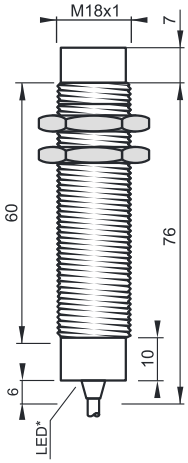
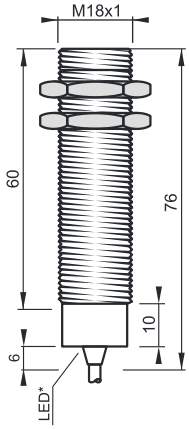
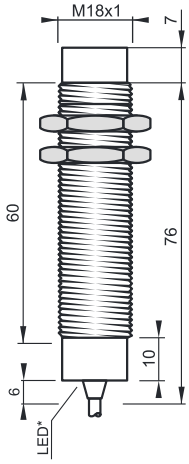
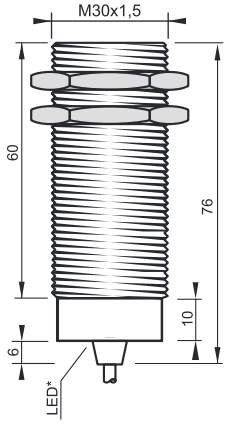
Not to be used for Safety Applications

	M8	M12	M12	M12
				
	140 °C	130 °C	130 °C	150 °C
				

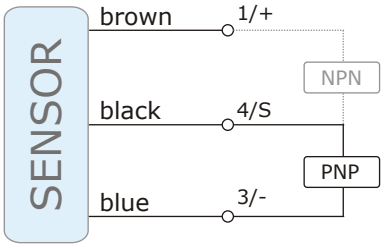
SPECIFICATIONS

	M8x1 - 140 °C	M12x1 - 130 °C	M12x1 - 130 °C	M12x1 - 150 °C
Sensing Distance	2.0 mm	3.0 mm - Shielded	4.0 mm - Unshielded	3.0 mm - Shielded
Amplifier	Fully Embedded	Fully Embedded	Fully Embedded	Fully Embedded
Operating Voltage	10…35 VDC	10…35 VDC	10…35 VDC	10…35 VDC
Current Consumption	< 5 mA	< 5 mA	< 5 mA	< 5 mA
Output Current	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting
Voltage Drop	2 V @ 120 mA	2 V @ 120 mA	2 V @ 120 mA	2 V @ 120 mA
Switching Frequency	800 Hz	500 Hz	500 Hz	500 Hz
Repeatability	< 3 %	< 3 %	< 3 %	< 3 %
Hysteresis	3…15 %	3…15 %	3…15 %	3…15 %
Operating Temperature	-25…+140 °C	-25…+130 °C	-25…+130 °C	-25…+150 °C
Thermal Stress	permanent	permanent	permanent	permanent
Protection Class	IP 67	IP 67	IP 67	IP 67
Housing Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Connected	2m, Silicone	2m, Silicone	2m, Silicone	2m, Silicone
Operating-LED				
Article Code				
Teflon Cable - PNP, NO	IHT8 S2APO60/A2T	IHT12 S3APO60/A2T	IHT12 N4APO64/A2T	IHT12 S3BPO60/A2T
Teflon Cable - PNP, NC	IHT8 S2APC60/A2T	IHT12 S3APC60/A2T	IHT12 N4APC64/A2T	IHT12 S3BPC60/A2T
Teflon Cable - NPN, NO	IHT8 S2ANO60/A2T	IHT12 S3ANO60/A2T	IHT12 N4ANO64/A2T	IHT12 S3BNO60/A2T
Teflon Cable - NPN, NC	IHT8 S2ANC60/A2T	IHT12 S3ANC60/A2T	IHT12 N4ANC64/A2T	IHT12 S3BNC60/A2T
Silicone Cable - PNP, NO	IHT8 S2APO60/A2S	IHT12 S3APO60/A2S	IHT12 N4APO64/A2S	IHT12 S3BPO60/A2S
Silicone Cable - PNP, NC	IHT8 S2APC60/A2S	IHT12 S3APC60/A2S	IHT12 N4APC64/A2S	IHT12 S3BPC60/A2S
Silicone Cable - NPN, NO	IHT8 S2ANO60/A2S	IHT12 S3ANO60/A2S	IHT12 N4ANO64/A2S	IHT12 S3BNO60/A2S
Silicone Cable - NPN, NC	IHT8 S2ANC60/A2S	IHT12 S3ANC60/A2S	IHT12 N4ANC64/A2S	IHT12 S3BNC60/A2S

* Only for mechanical setup - LED possibly dies if operated at temperatures beyond 130 °C (266 °F). LED functionality is not covered by warranty !

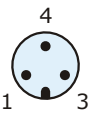
M12	M18	M18	M18	M18	M30
					
150 °C	130 °C	130 °C	150 °C	150 °C	130 °C
					
M12x1 - 150 °C	M18x1 - 130 °C	M18x1 - 130 °C	M18x1 - 150 °C	M18x1 - 150 °C	M30x1.5 - 130 °C
4 mm - Unshielded	5 mm - Shielded	8 mm - Unshielded	5 mm - Shielded	8 mm - Unshielded	10 mm - Shielded
Fully Embedded	Fully Embedded	Fully Embedded	Fully Embedded	Fully Embedded	Fully Embedded
10…35 VDC	10…35 VDC	10…35 VDC	10…35 VDC	10…35 VDC	10…35 VDC
< 5 mA	< 5 mA	< 5 mA	< 5 mA	< 5 mA	< 5 mA
200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting
2 V @ 120 mA	2 V @ 150 mA	2 V @ 150 mA	2 V @ 150 mA	2 V @ 150 mA	2 V @ 150 mA
500 Hz	500 Hz	500 Hz	500 Hz	500 Hz	200 Hz
< 3 %	< 3 %	< 3 %	< 3 %	< 3 %	< 3 %
3…15 %	3…15 %	3…15 %	3…15 %	3…15 %	3…15 %
-25…+150 °C	-25…+130 °C	-25…+130 °C	-25…+150 °C	-25…+150 °C	-25…+130 °C
permanent	permanent	permanent	permanent	permanent	permanent
IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
2m, Silicone	2m, Silicone	2m, Silicone	2m, Silicone	2m, Silicone	2m, Silicone
IHT12 N4BPO64/A2T	IHT18 S5APO76/A2T	IHT18 N8APO83/A2T	IHT18 S5BPO76/A2T	IHT18 N8BPO83/A2T	IHT30 S10APO76/A2T
IHT12 N4BPC64/A2T	IHT18 S5APC76/A2T	IHT18 N8APC83/A2T	IHT18 S5BPC76/A2T	IHT18 N8BPC83/A2T	IHT30 S10APC76/A2T
IHT12 N4BNO64/A2T	IHT18 S5ANO76/A2T	IHT18 N8ANO83/A2T	IHT18 S5BNO76/A2T	IHT18 N8BNO83/A2T	IHT30 S10ANO76/A2T
IHT12 N4BNC64/A2T	IHT18 S5ANC76/A2T	IHT18 N8ANC83/A2T	IHT18 S5BNC76/A2T	IHT18 N8BNC83/A2T	IHT30 S10ANC76/A2T
IHT12 N4BPO64/A2S	IHT18 S5APO76/A2S	IHT18 N8APO83/A2S	IHT18 S5BPO76/A2S	IHT18 N8BPO83/A2S	IHT30 S10APO76/A2S
IHT12 N4BPC64/A2S	IHT18 S5APC76/A2S	IHT18 N8APC83/A2S	IHT18 S5BPC76/A2S	IHT18 N8BPC83/A2S	IHT30 S10APC76/A2S
IHT12 N4BNO64/A2S	IHT18 S5ANO76/A2S	IHT18 N8ANO83/A2S	IHT18 S5BNO76/A2S	IHT18 N8BNO83/A2S	IHT30 S10ANO76/A2S
IHT12 N4BNC64/A2S	IHT18 S5ANC76/A2S	IHT18 N8ANC83/A2S	IHT18 S5BNC76/A2S	IHT18 N8BNC83/A2S	IHT30 S10ANC76/A2S

Output Schematics

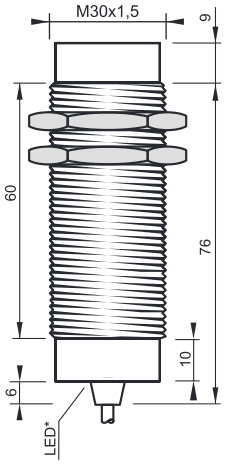
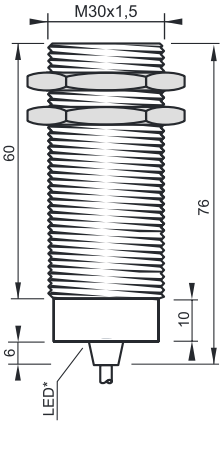
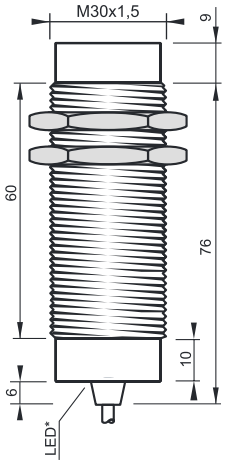


Connector M12

Connector M8



Not to be used for Safety Applications

M30	M30	M30
		
130 °C	150 °C	150 °C
		

SPECIFICATIONS

	M30x1.5 - 130 °C	M30x1.5 - 150 °C	M30x1.5 - 150 °C
Sensing Distance	15 mm - Unshielded	10 mm - Shielded	15 mm - Unshielded
Amplifier	Fully Embedded	Fully Embedded	Fully Embedded
Operating Voltage	10…35 VDC	10…35 VDC	10…35 VDC
Current Consumption	< 5 mA	< 5 mA	< 5 mA
Output Current	200 mA, self-resetting	200 mA, self-resetting	200 mA, self-resetting
Voltage Drop	2 V @ 150 mA	2 V @ 150 mA	2 V @ 150 mA
Switching Frequency	200 Hz	200 Hz	200 Hz
Repeatability	< 3%	< 3 %	< 3%
Hysteresis	3…15 %	3…15 %	3…15 %
Operating Temperature	-25…+130 °C	-25…+150 °C	-25…+150 °C
Thermal Stress	permanent	permanent	permanent
Protection Class	IP 67	IP 67	IP 67
Housing Material	Stainless Steel	Stainless Steel	Stainless Steel
Connected	2m, Silicone	2m, Silicone	2m, Silicone
Operating-LED			

Article Code

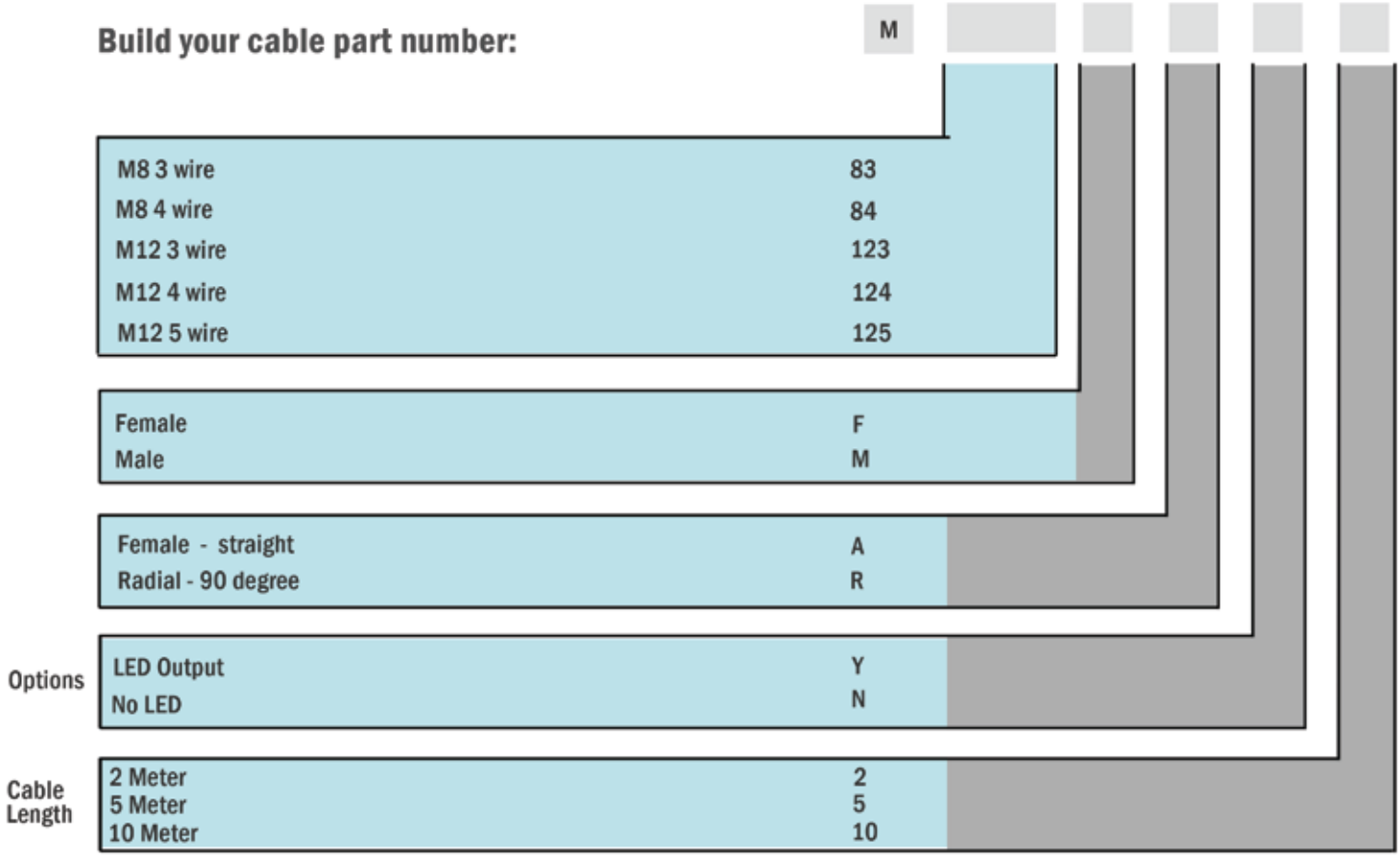
Teflon Cable - PNP, NO	IHT30 N15APO85/A2T	IHT30 S10BPO76/A2T	IHT30 N15BPO85/A2T
Teflon Cable - PNP, NC	IHT30 N15APC85/A2T	IHT30 S10BPC76/A2T	IHT30 N15BPC85/A2T
Teflon Cable - NPN, NO	IHT30 N15ANO85/A2T	IHT30 S10BNO76/A2T	IHT30 N15BNO85/A2T
Teflon Cable - NPN, NC	IHT30 N15ANC85/A2T	IHT30 S10BNC76/A2T	IHT30 N15BNC85/A2T
Silicone Cable - PNP, NO	IHT30 N15APO85/A2S	IHT30 S10BPO76/A2S	IHT30 N15BPO85/A2S
Silicone Cable - PNP, NC	IHT30 N15APC85/A2S	IHT30 S10BPC76/A2S	IHT30 N15BPC85/A2S
Silicone Cable - NPN, NO	IHT30 N15ANO85/A2S	IHT30 S10BNO76/A2S	IHT30 N15BNO85/A2S
Silicone Cable - NPN, NC	IHT30 N15ANC85/A2S	IHT30 S10BNC76/A2S	IHT30 N15BNC85/A2S

* Only for mechanical setup - LED possibly dies if operated at temperatures beyond 130 °C (266 °F). LED functionality is not covered by warranty !

SENSEABLE™ Cabling

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

Build your cable part number:



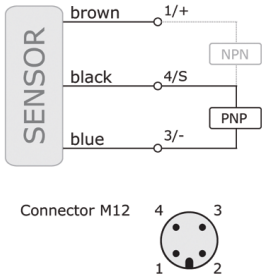
Example:

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

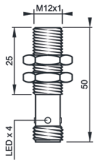
For cable quotes and datasheets, email us at customercare@trelectronic.com
Custom lengths and configurations are available on request.

SENSEABLE™ Value Prox

Output Schematics



M12



$15 each

Pricing and availability subject to change
Minimum order quantities may apply

SPECIFI CATIONS:

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

Article Code:

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

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