



SENSEABLE™

The New Family of General Purpose Economical Sensors from TR Electronic

High Temperature Inductive Proximity 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



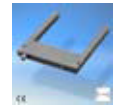
Linear Displacement Transducers



Laser Distance



Intelligent Drives



Photoelectrics



Motion Sensors



Color Detection



Cables, Mounting Hardware and Accessories



IP69K Wash-down Sensors



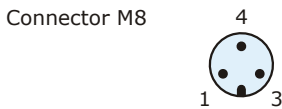
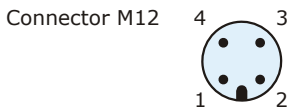
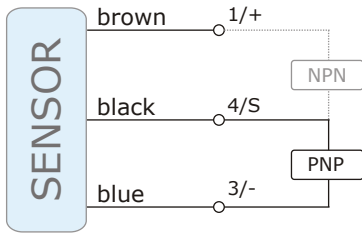
Safety Light Curtains

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.

M12 M12 M18 M18

Output Schematics



Not to be used for Safety Applications

M12

M12

M18

M18

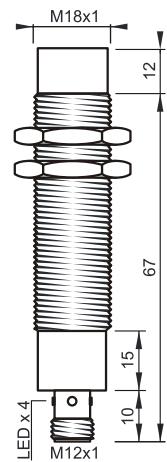
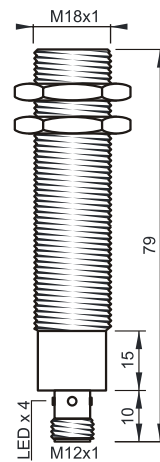
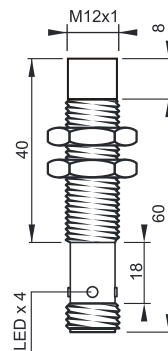
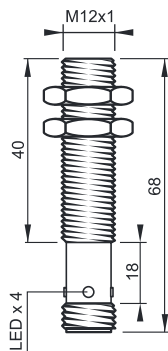


2 mm

4 mm

5 mm

8 mm



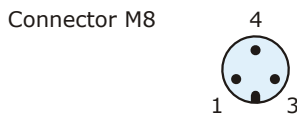
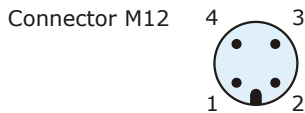
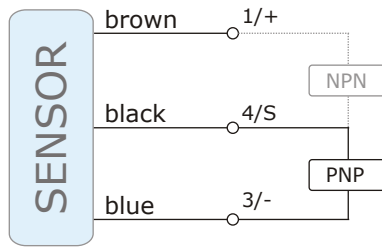
SPECIFICATIONS

| | M12x1 - Ferrous | M12x1 - Ferrous | M18x1 - Ferrous | M18x1 - Ferrous |
|------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|
| Sensing Distance | 2 mm - Shielded See Article Code | 4 mm - Unshielded See Article Code | 5 mm - Shielded See Article Code | 8 mm - Unshielded 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 {SPECS_5_9} | < 1 % (Sn) 3...15 % | < 1 % (Sn) 3...15 % | < 1 % (Sn) 3...15 % | < 1 % (Sn) 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 |
| | INF12 S2NC68/M12 | INF12 N4NC68/M12 | INF18 S5NC79/M12 | INF18 N8NC79/M12 |

Recommended Connecting Cable

Inductive Proximity Switches
Ferrous / Non-Ferrous Sensing only

Output Schematics



Ø6.5

Ø6.5

M8

M8



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 - Unshielded | 1 mm - Shielded | 2 mm - Unshielded |
| 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 |

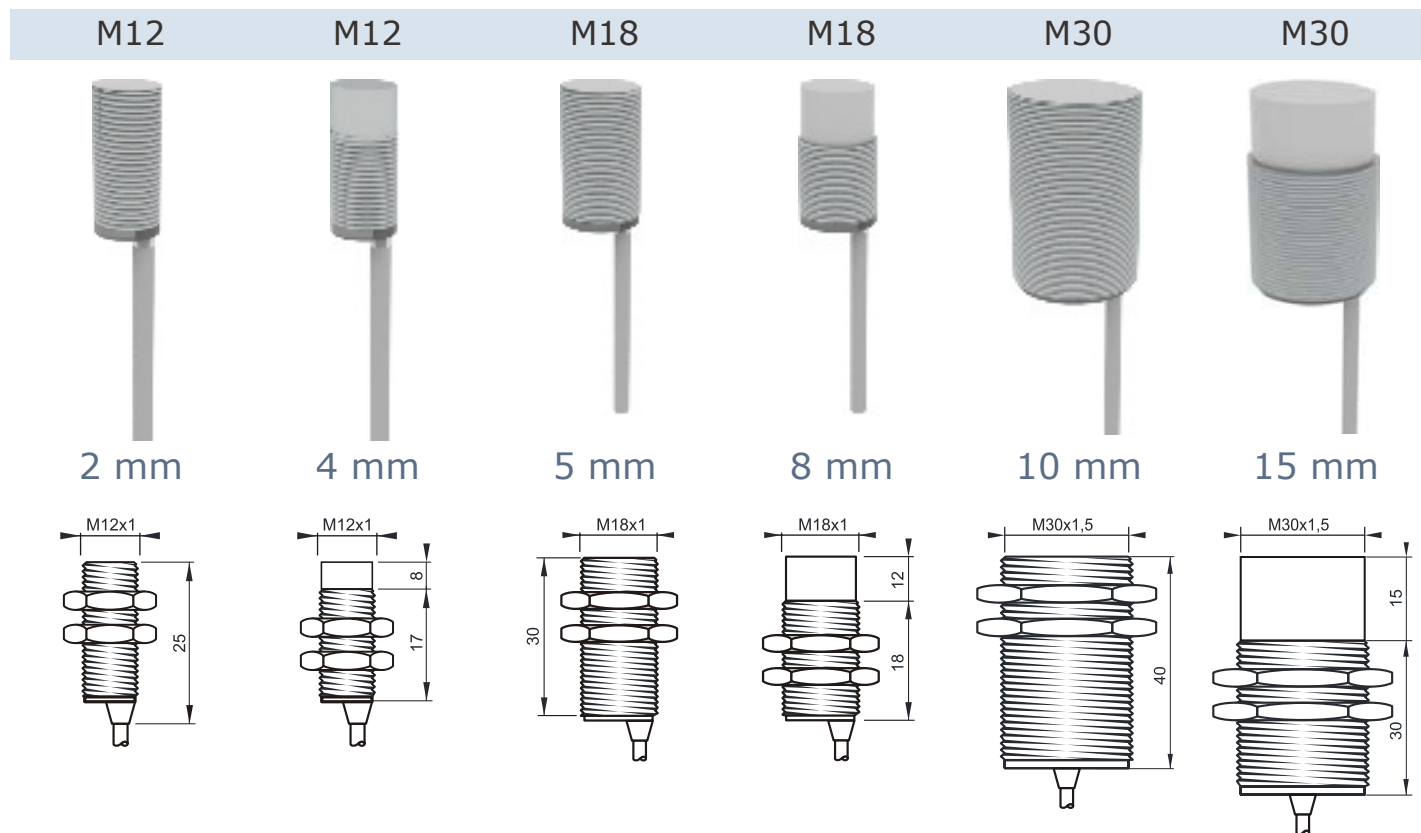
Article Code

| | | | | |
|-------|------------------|------------------|-----------------|-----------------|
| NAMUR | IPSD6 S1NA20/N2P | IPSD6 N2NA25/N2P | IPS8 S1NA25/N2P | IPS8 N2NA25/N2P |
|-------|------------------|------------------|-----------------|-----------------|

Recommended Connecting Cable

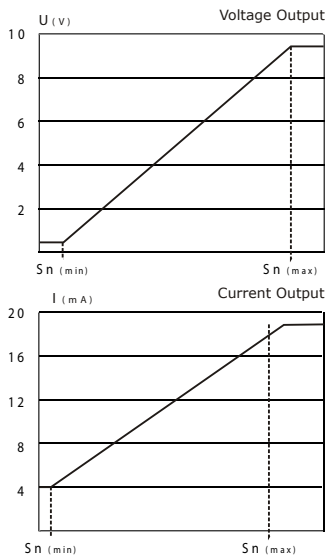
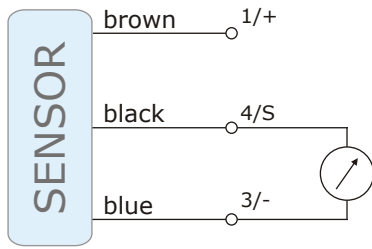
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INDUCTIVE



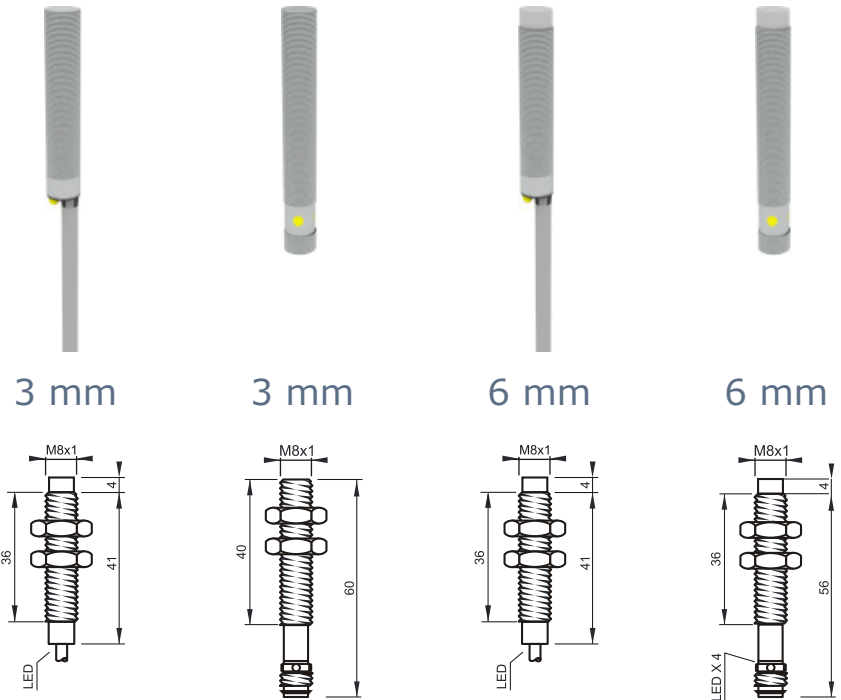
| M12 - NAMUR | M12 - NAMUR | M18 - NAMUR | M18 - NAMUR | M30 - NAMUR | M30 - NAMUR |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 2 mm - Shielded | 4 mm - Unshielded | 5 mm - Shielded | 8 mm - Unshielded | 10 mm - Shielded | 15 mm - Unshielded |
| 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



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 |
|----------------------------------|----------------|---------------|----------------|---------------|

M8/3...

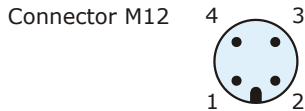
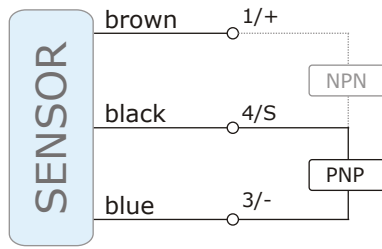
M8/3...

M8/3...

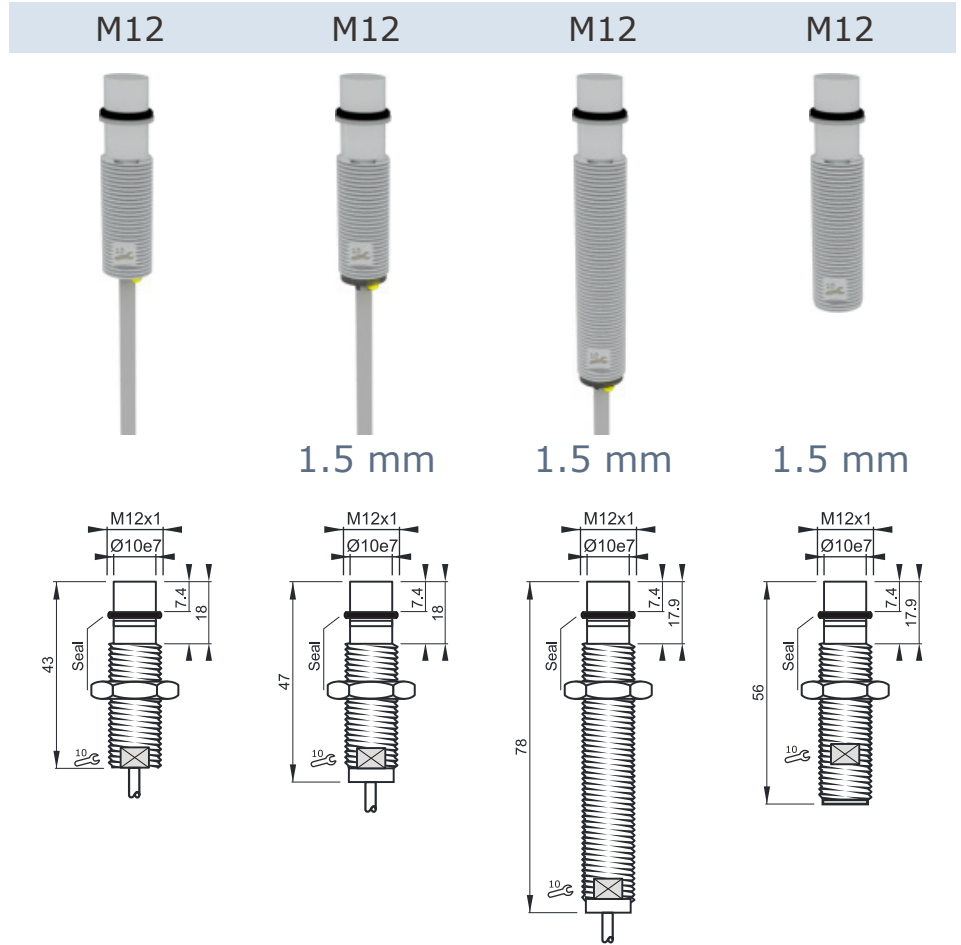
M8/3...

Recommended Connecting Cable

Output Schematics



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...

INDUCTIVE

M12 M12 M12 M12 M12 M12



1.5 mm

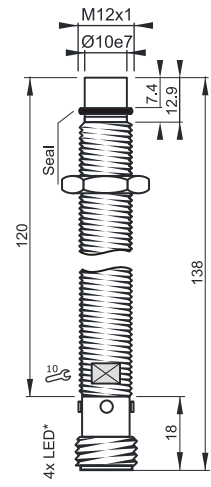
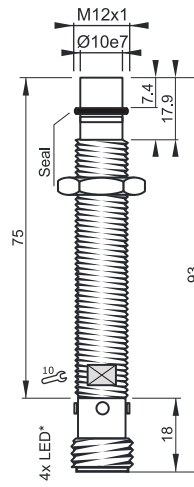
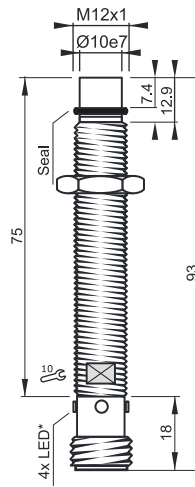
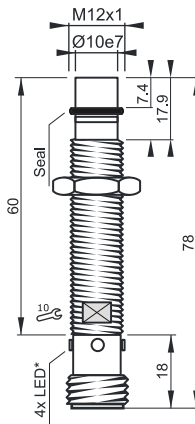
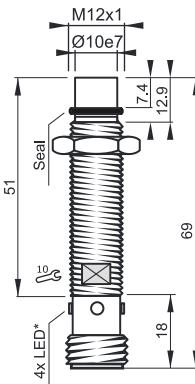
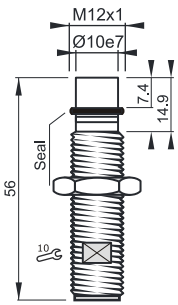
1.5 mm

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
10...35 VDC

1.5 mm - Shielded
10...35 VDC

1.5 mm - Shielded
10...35 VDC

1.5 mm - Shielded
10...35 VDC

1.5 mm - Shielded
10...35 VDC

1.5 mm - Shielded
10...35 VDC

< 5 mA
500 bar / 7250 PSI
200 mA, self-
resetting

< 5 mA
500 bar / 7250 PSI
200 mA, self-
resetting

< 5 mA
500 bar / 7250 PSI
200 mA, self-
resetting

< 5 mA
500 bar / 7250 PSI
200 mA, self-
resetting

< 5 mA
500 bar / 7250 PSI
200 mA, self-
resetting

< 5 mA
500 bar / 7250 PSI
200 mA, self-
resetting

2.5 V @ 150 mA
50 Hz
< 3 %
< 20 %

2.5 V @ 150 mA
50 Hz
< 3 %
< 20 %

2.5 V @ 150 mA
50 Hz
< 3 %
< 20 %

2.5 V @ 150 mA
50 Hz
< 3 %
< 20 %

2.5 V @ 150 mA
50 Hz
< 3 %
< 20 %

2.5 V @ 150 mA
50 Hz
< 3 %
< 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...

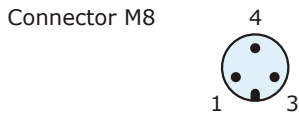
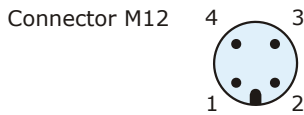
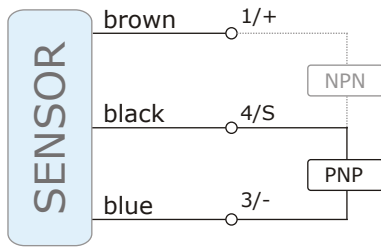
M12/3...

M12/3...

M12/3...

M12/3...

Output Schematics



Not to be used for Safety Applications

| M8 | M12 | M12 | M12 |
|----|-----|-----|-----|
|----|-----|-----|-----|

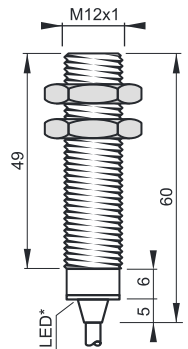
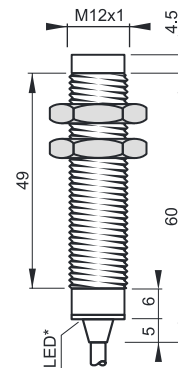
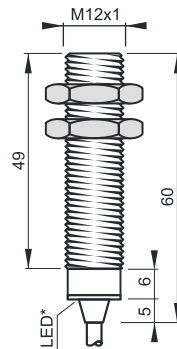
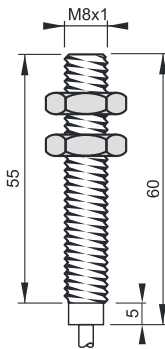


140 °C

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 !

INDUCTIVE

M12 M18 M18 M18 M18 M30



150 °C

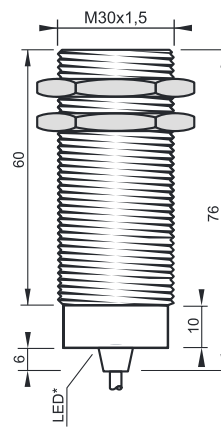
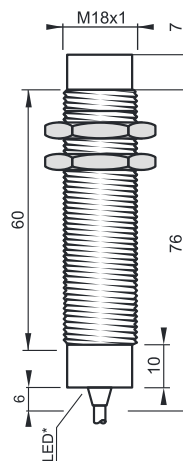
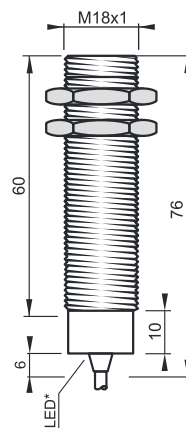
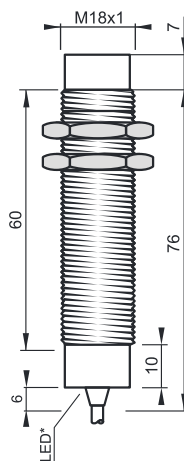
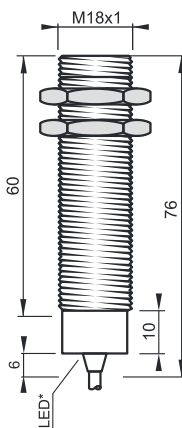
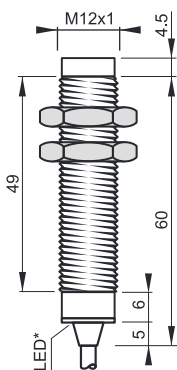
130 °C

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
Fully Embedded
10...35 VDC
< 5 mA
200 mA, self-resetting
2 V @ 120 mA
500 Hz
< 3 %
3...15 %
-25...+150 °C
permanent
IP 67
Stainless Steel
2m, Silicone

5 mm - Shielded
Fully Embedded
10...35 VDC
< 5 mA
200 mA, self-resetting
2 V @ 150 mA
500 Hz
< 3 %
3...15 %
-25...+130 °C
permanent
IP 67
Stainless Steel
2m, Silicone

8 mm - Unshielded
Fully Embedded
10...35 VDC
< 5 mA
200 mA, self-resetting
2 V @ 150 mA
500 Hz
< 3 %
3...15 %
-25...+130 °C
permanent
IP 67
Stainless Steel
2m, Silicone

5 mm - Shielded
Fully Embedded
10...35 VDC
< 5 mA
200 mA, self-resetting
2 V @ 150 mA
500 Hz
< 3 %
3...15 %
-25...+150 °C
permanent
IP 67
Stainless Steel
2m, Silicone

8 mm - Unshielded
Fully Embedded
10...35 VDC
< 5 mA
200 mA, self-resetting
2 V @ 150 mA
500 Hz
< 3 %
3...15 %
-25...+150 °C
permanent
IP 67
Stainless Steel
2m, Silicone

10 mm - Shielded
Fully Embedded
10...35 VDC
< 5 mA
200 mA, self-resetting
2 V @ 150 mA
200 Hz
< 3 %
3...15 %
-25...+130 °C
permanent
IP 67
Stainless Steel
2m, Silicone

IHT12 N4BPO64/A2T
IHT12 N4BPC64/A2T
IHT12 N4BNO64/A2T
IHT12 N4BNC64/A2T
IHT12 N4BPO64/A2S
IHT12 N4BPC64/A2S
IHT12 N4BNO64/A2S
IHT12 N4BNC64/A2S

IHT18 S5APO76/A2T
IHT18 S5APC76/A2T
IHT18 S5ANO76/A2T
IHT18 S5ANC76/A2T
IHT18 S5APO76/A2S
IHT18 S5APC76/A2S
IHT18 S5ANO76/A2S
IHT18 S5ANC76/A2S

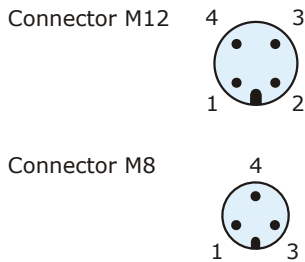
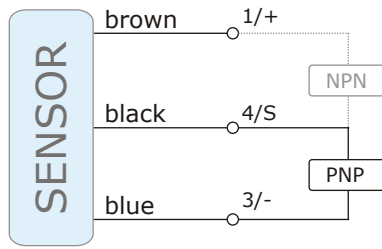
IHT18 N8APO83/A2T
IHT18 N8APC83/A2T
IHT18 N8ANO83/A2T
IHT18 N8ANC83/A2T
IHT18 N8APO83/A2S
IHT18 N8APC83/A2S
IHT18 N8ANO83/A2S
IHT18 N8ANC83/A2S

IHT18 S5BPO76/A2T
IHT18 S5BPC76/A2T
IHT18 S5BNO76/A2T
IHT18 S5BNC76/A2T
IHT18 S5BPO76/A2S
IHT18 S5BPC76/A2S
IHT18 S5BNO76/A2S
IHT18 S5BNC76/A2S

IHT18 N8BPO83/A2T
IHT18 N8BPC83/A2T
IHT18 N8BNO83/A2T
IHT18 N8BNC83/A2T
IHT18 N8BPO83/A2S
IHT18 N8BPC83/A2S
IHT18 N8BNO83/A2S
IHT18 N8BNC83/A2S

IHT30 S10APO76/A2T
IHT30 S10APC76/A2T
IHT30 S10ANO76/A2T
IHT30 S10ANC76/A2T
IHT30 S10APO76/A2S
IHT30 S10APC76/A2S
IHT30 S10ANO76/A2S
IHT30 S10ANC76/A2S

Output Schematics



Not to be used for Safety Applications

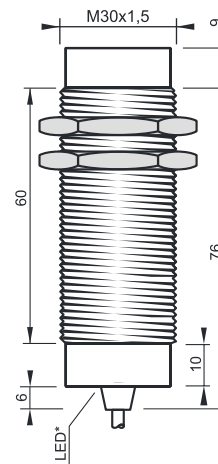
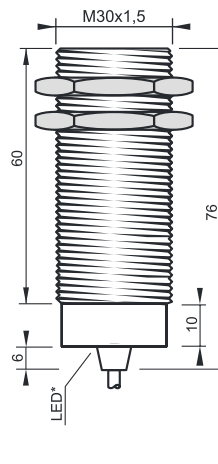
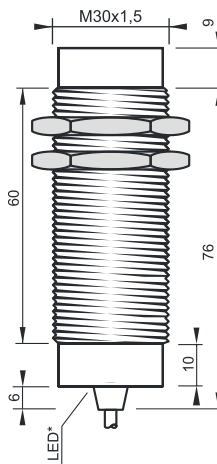
M30 M30 M30



130 °C

150 °C

150 °C



SPECIFICATIONS

- Sensing Distance
- Amplifier
- Operating Voltage
- Current Consumption
- Output Current
- Voltage Drop
- Switching Frequency
- Repeatability
- Hysteresis
- Operating Temperature
- Thermal Stress
- Protection Class
- Housing Material
- Connected
- Operating-LED

| M30x1.5 - 130 °C | M30x1.5 - 150 °C | M30x1.5 - 150 °C |
|------------------------|------------------------|------------------------|
| 15 mm - Unshielded | 10 mm - Shielded | 15 mm - Unshielded |
| Fully Embedded | Fully Embedded | Fully Embedded |
| 10...35 VDC | 10...35 VDC | 10...35 VDC |
| < 5 mA | < 5 mA | < 5 mA |
| 200 mA, self-resetting | 200 mA, self-resetting | 200 mA, self-resetting |
| 2 V @ 150 mA | 2 V @ 150 mA | 2 V @ 150 mA |
| 200 Hz | 200 Hz | 200 Hz |
| < 3% | < 3% | < 3% |
| 3...15 % | 3...15 % | 3...15 % |
| -25...+130 °C | -25...+150 °C | -25...+150 °C |
| permanent | permanent | permanent |
| IP 67 | IP 67 | IP 67 |
| Stainless Steel | Stainless Steel | Stainless Steel |
| 2m, Silicone | 2m, Silicone | 2m, Silicone |

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:

| | | 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:

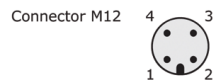
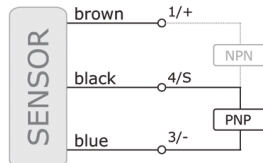
M83FAN5 = 5 Meter Cable, M8 with 3 Poles/Pins, Female, Axial Connection, with NO LED

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

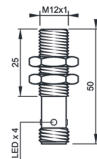
SENSEABLE™

Value Prox

Output Schematics



M12



**\$15
each**

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 |

Article Code:

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

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Minimum order quantities may apply

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