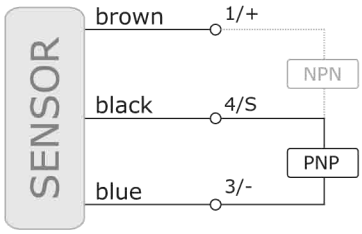
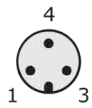
Output Schematics

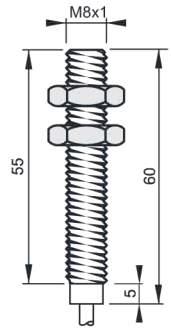
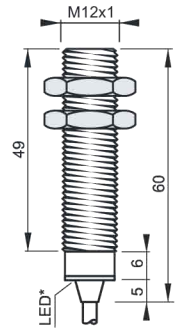
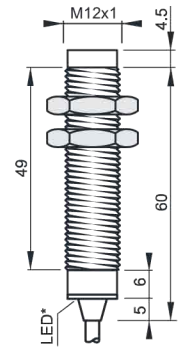
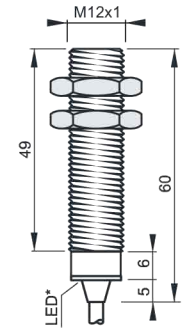


Connector M12

Connector M8

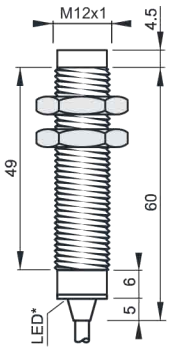
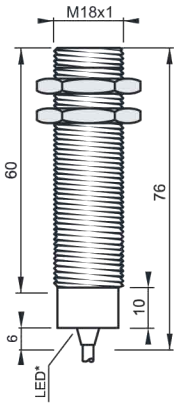
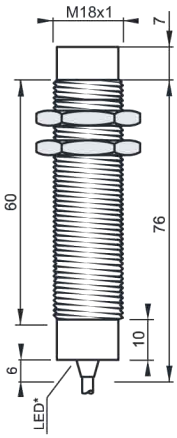
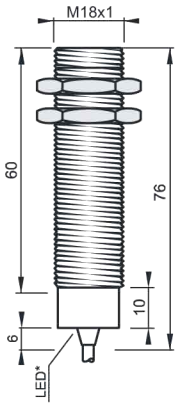
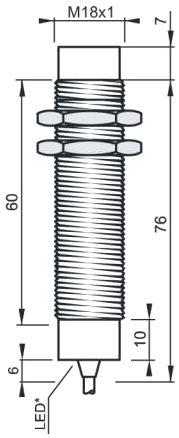
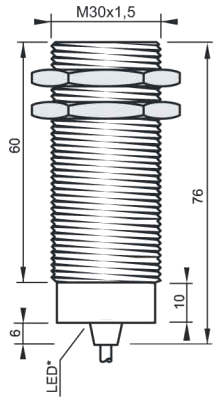


Not to be used for Safety applications

	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 - Flush	4.0 mm - NonFlush	3.0 mm - Flush
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	120 mA	120 mA	120 mA	120 mA
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	V2A - 1.4305	V2A - 1.4305	V2A - 1.4305	V2A - 1.4305
Connected	2m, Silicone	2m, Silicone	2m, Silicone	2m, Silicone
Operating-LED	* Incorporated	* Incorporated	* Incorporated	* Incorporated
Article Code				
Teflon Cable - PNP, NO	IHT8 A2PO60/A2T	IHT12 A3PO60/A2T	IHT12 A4PO64/A2T	IHT12 B3PO60/A2T
Teflon Cable - PNP, NC	IHT8 A2PC60/A2T	IHT12 A3PC60/A2T	IHT12 A4PC64/A2T	IHT12 B3PC60/A2T
Teflon Cable - NPN, NO	IHT8 A2NO60/A2T	IHT12 A3NO60/A2T	IHT12 A4NO64/A2T	IHT12 B3NO60/A2T
Teflon Cable - NPN, NC	IHT8 A2NC60/A2T	IHT12 A3NC60/A2T	IHT12 A4NC64/A2T	IHT12 B3NC60/A2T
Silicone Cable - PNP, NO	IHT8 A2PO60/A2S	IHT12 A3PO60/A2S	IHT12 A4PO64/A2S	IHT12 B3PO60/A2S
Silicone Cable - PNP, NC	IHT8 A2PC60/A2S	IHT12 A3PC60/A2S	IHT12 A4PC64/A2S	IHT12 B3PC60/A2S
Silicone Cable - NPN, NO	IHT8 A2NO60/A2S	IHT12 A3NO60/A2S	IHT12 A4NO64/A2S	IHT12 B3NO60/A2S
Silicone Cable - NPN, NC	IHT8 A2NC60/A2S	IHT12 A3NC60/A2S	IHT12 A4NC64/A2S	IHT12 B3NC60/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 - NonFlush	5 mm - Flush	8 mm - NonFlush	5 mm - Flush	8 mm - NonFlush	10 mm - Flush
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
120 mA	150 mA	150 mA	150 mA	150 mA	150 mA
2 V @ 120 mA	2 V @ 80 mA	2 V @ 80 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
V2A - 1.4305	V2A - 1.4305	V2A - 1.4305	V2A - 1.4305	V2A - 1.4305	V2A - 1.4305
2m, Silicone	2m, Silicone	2m, Silicone	2m, Silicone	2m, Silicone	2m, Silicone
* Incorporated	* Incorporated	* Incorporated	* Incorporated	* Incorporated	* Incorporated
IHT12 B4PO64/A2T	IHT18 A5PO76/A2T	IHT18 A8PO83/A2T	IHT18 B5PO76/A2T	IHT18 B8PO83/A2T	IHT30 A10PO76/A2T
IHT12 B4PC64/A2T	IHT18 A5PC76/A2T	IHT18 A8PC83/A2T	IHT18 B5PC76/A2T	IHT18 B8PC83/A2T	IHT30 A10PC76/A2T
IHT12 B4NO64/A2T	IHT18 A5NO76/A2T	IHT18 A8NO83/A2T	IHT18 B5NO76/A2T	IHT18 B8NO83/A2T	IHT30 A10NO76/A2T
IHT12 B4NC64/A2T	IHT18 A5NC76/A2T	IHT18 A8NC83/A2T	IHT18 B5NC76/A2T	IHT18 B8NC83/A2T	IHT30 A10NC76/A2T
IHT12 B4PO64/A2S	IHT18 A5PO76/A2S	IHT18 A8PO83/A2S	IHT18 B5PO76/A2S	IHT18 B8PO83/A2S	IHT30 A10PO76/A2S
IHT12 B4PC64/A2S	IHT18 A5PC76/A2S	IHT18 A8PC83/A2S	IHT18 B5PC76/A2S	IHT18 B8PC83/A2S	IHT30 A10PC76/A2S
IHT12 B4NO64/A2S	IHT18 A5NO76/A2S	IHT18 A8NO83/A2S	IHT18 B5NO76/A2S	IHT18 B8NO83/A2S	IHT30 A10NO76/A2S
IHT12 B4NC64/A2S	IHT18 A5NC76/A2S	IHT18 A8NC83/A2S	IHT18 B5NC76/A2S	IHT18 B8NC83/A2S	IHT30 A10NC76/A2S