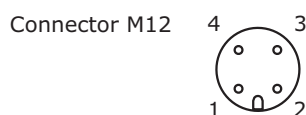
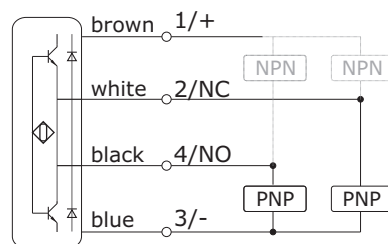
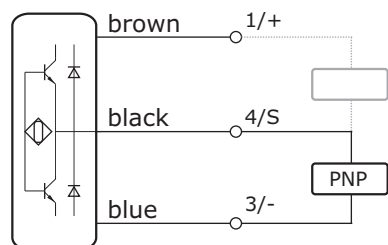


Inductive Proximity Switches

Output Schematics

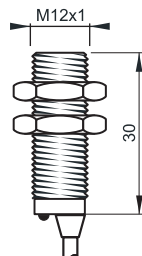


Not to be
used for
Safety
Applications

M12



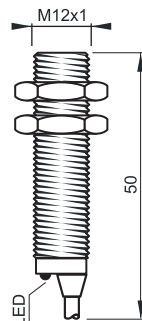
2 mm



M12



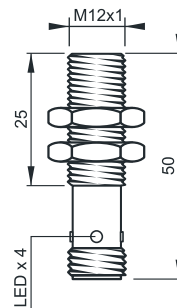
2 mm



M12



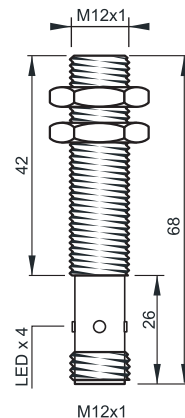
2 mm



M12



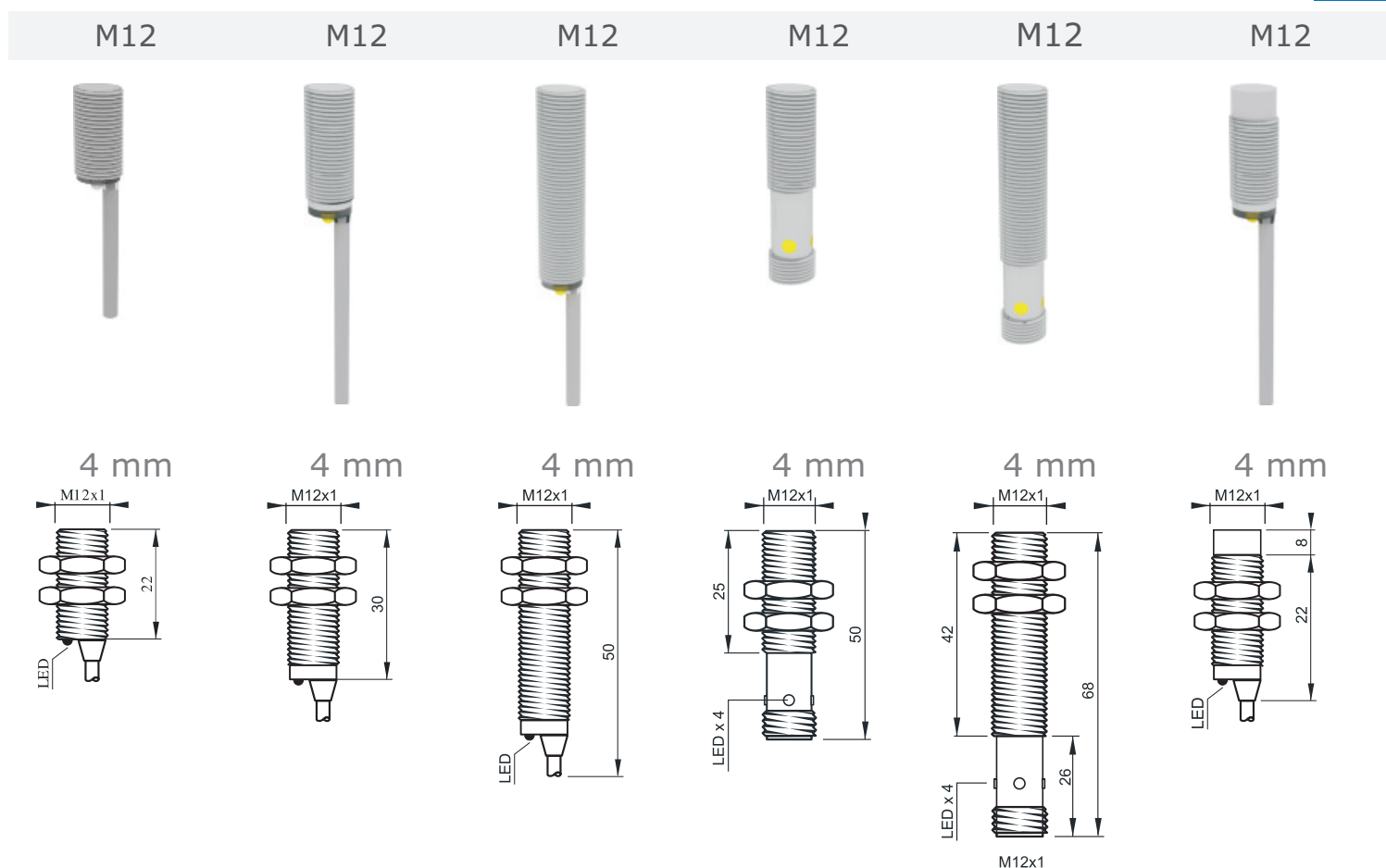
2 mm



SPECIFICATIONS

	M12x1	M12x1	M12x1	M12x1
Sensing Distance	2 mm - Shielded	2 mm - Shielded	2 mm - Shielded	2 mm - Shielded
Operating Voltage	10...30 VDC, 3-wire	10...30 VDC, 3-wire	10...30 VDC, 3-wire	10...30 VDC, 3-wire
Reverse Polarity Protection	built-in	built-in	built-in	built-in
Current Consumption	< 8 mA	< 8 mA	< 8 mA	< 8 mA
Current Load Capability	200 mA	200 mA	200 mA	200 mA
Short Circuit Protection	built-in - self resetting	built-in - self resetting	built-in - self resetting	built-in - 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	2000 Hz	2000 Hz	2000 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	POM	POM	POM	POM
Housing Material	Plated Brass	Plated Brass	Plated Brass	Plated Brass
Connection	High-Flex PVC, 2m	High-Flex PVC, 2m	Connector M12, 4-pole	Connector M12, 4-pole
Output Indicator	Integrated	Integrated	Integrated	Integrated
Article Code				
PNP - NO, 3-wire	IPS12-S2PO30/A2P	IPS12-S2PO50/A2P	IPS12-S2PO50/M12	IPS12-S2PO68/M12
PNP - NC, 3-wire	IPS12-S2PC30/A2P	IPS12-S2PC50/A2P	IPS12-S2PC50/M12	IPS12-S2PC68/M12
PNP - NO+NC, 4-wire				
NPN - NO, 3-wire	IPS12-S2NO30/A2P	IPS12-S2NO50/A2P	IPS12-S2NO50/M12	IPS12-S2NO68/M12
NPN - NC, 3-wire	IPS12-S2NC30/A2P	IPS12-S2NC50/A2P	IPS12-S2NC50/M12	IPS12-S2NC68/M12
NPN - NO+NC, 4-wire				
10...55 VDC - NO, 2-wire		IPS12-S2DO50/A2P		IPS12-S2DO68/M12
10...55 VDC - NC, 2-wire		IPS12-S2DC50/A2P		IPS12-S2DC68/M12

Inductive Proximity Switches



M12x1	M12x1	M12x1	M12x1	M12x1	M12x1
4 mm - Shielded	4 mm - Shielded	4 mm - Shielded	4 mm - Shielded	4 mm - Shielded	4 mm - Unshielded
10...30 VDC, 3-wire built-in < 8 mA 200 mA built-in - self resetting < 1.5 V @ 200 mA 1000 Hz < 1 % (Sn) 3...15 % -25...75 °C IP67 POM Plated Brass High-Flex PVC, 2m Integrated	10...30 VDC, 3-wire built-in < 8 mA 200 mA built-in - self resetting < 1.5 V @ 200 mA 1000 Hz < 1 % (Sn) 3...15 % -25...75 °C IP67 POM Plated Brass High-Flex PVC, 2m Integrated	10...30 VDC, 3-wire built-in < 8 mA 200 mA built-in - self resetting < 1.5 V @ 200 mA 1000 Hz < 1 % (Sn) 3...15 % -25...75 °C IP67 POM Plated Brass High-Flex PVC, 2m Integrated	10...30 VDC, 3-wire built-in < 8 mA 200 mA built-in - self resetting < 1.5 V @ 200 mA 1000 Hz < 1 % (Sn) 3...15 % -25...75 °C IP67 POM Plated Brass Connector M12, 4-pole Integrated	10...30 VDC, 3-wire built-in < 8 mA 200 mA built-in - self resetting < 1.5 V @ 200 mA 1000 Hz < 1 % (Sn) 3...15 % -25...75 °C IP67 POM Plated Brass Connector M12, 4-pole Integrated	10...30 VDC, 3-wire built-in < 8 mA 200 mA built-in - self resetting < 1.5 V @ 200 mA 1000 Hz < 1 % (Sn) 3...15 % -25...75 °C IP67 POM Plated Brass High-Flex PVC, 2m Integrated
IPS12-S4PO22/A2P IPS12-S4PC22/A2P	IPS12-S4PO30/A2P IPS12-S4PC30/A2P IPS12-S4PCO30/A2P IPS12-S4NO30/A2P IPS12-S4NC30/A2P IPS12-S4NCO30/A2P	IPS12-S4PO50/A2P IPS12-S4PC50/A2P IPS12-S4PCO50/A2P IPS12-S4NO50/A2P IPS12-S4NC50/A2P IPS12-S4NCO50/A2P IPS12-S4DO50/A2P IPS12-S4DC50/A2P	IPS12-S4PO50/M12 IPS12-S4PC50/M12 IPS12-S4PCO50/M12 IPS12-S4NO50/M12 IPS12-S4NC50/M12 IPS12-S4NCO50/M12	IPS12-S4PO68/M12 IPS12-S4PC68/M12 IPS12-S4PCO68/M12 IPS12-S4NO68/M12 IPS12-S4NC68/M12 IPS12-S4NCO68/M12 IPS12-S4DO68/M12 IPS12-S4DC68/M12	IPS12-N4PO30/A2P IPS12-N4PC30/A2P IPS12-N4NO30/A2P IPS12-N4NCO30/A2P