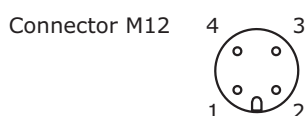
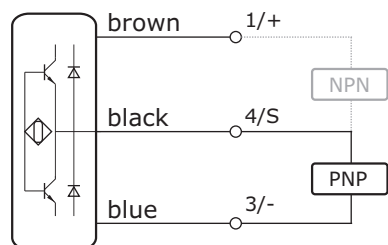


Inductive Proximity Switches

Output Schematics

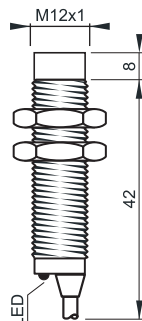


Not to be
used for
Safety
Applications

M12



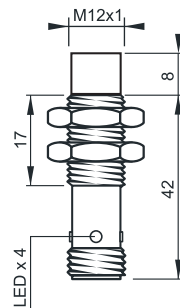
4 mm



M12



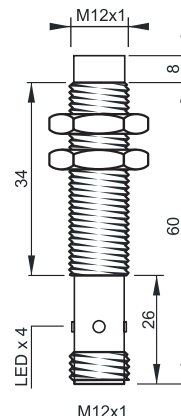
4 mm



M12



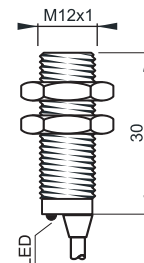
4 mm



M12



4 mm



SPECIFICATIONS

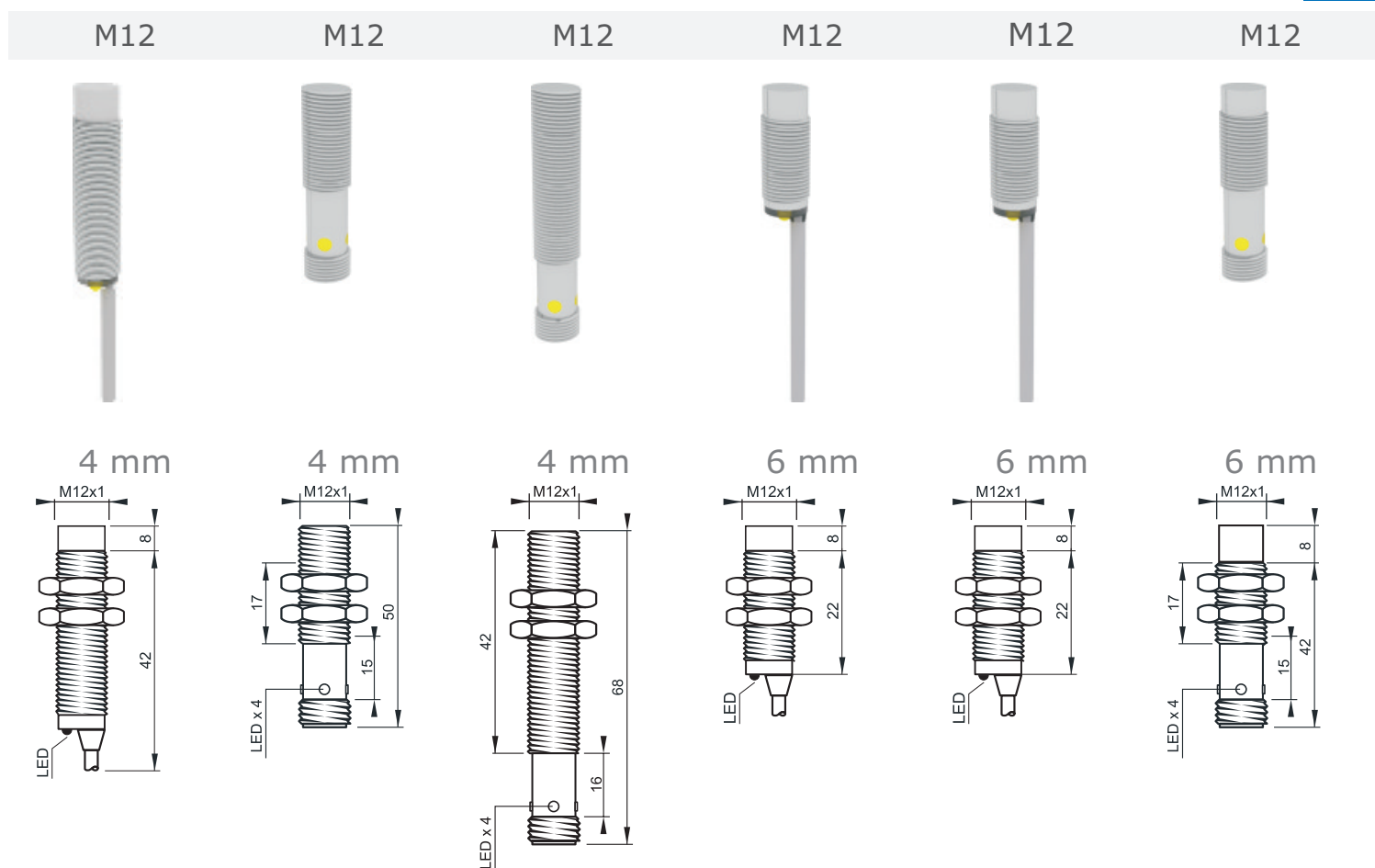
	M12x1	M12x1	M12x1	M12 Metal Face
Sensing Distance	4 mm - Unshielded	4 mm - Unshielded	4 mm - Unshielded	4 mm - Shielded
Operating Voltage	10...30 VDC, 3-wire	10...30 VDC, 3-wire	10...30 VDC, 3-wire	10...30 VDC, 3-wire
Reverse Polarity Protection	built-in	built-in	built-in	built-in
Current Consumption	< 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	1000 Hz	1000 Hz	1000 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	IP69k, Conn. IP67
Sensing Face Material	POM	POM	POM	1.4305 / SS303
Housing Material	Plated Brass	Plated Brass	Plated Brass	1.4305 / SS303
Connection	High-Flex PVC, 2m	Connector M12, 4-pole	Connector M12, 4-pole	High-Flex PVC, 2m
Output Indicator	Integrated	Integrated	Integrated	Integrated
Article Code				
PNP - NO, 3-wire	IPS12-N4PO50/A2P	IPS12-N4PO50/M12	IPS12-N4PO68/M12	IMF12-S4PO30/A2P
PNP - NC, 3-wire	IPS12-N4PC50/A2P	IPS12-N4PC50/M12	IPS12-N4PC68/M12	IMF12-S4PC30/A2P
PNP - NO+NC, 4-wire				
NPN - NO, 3-wire	IPS12-N4NO50/A2P	IPS12-N4NO50/M12	IPS12-N4NO68/M12	IMF12-S4NO30/A2P
NPN - NC, 3-wire	IPS12-N4NC50/A2P	IPS12-N4NC50/M12	IPS12-N4NC68/M12	IMF12-S4NC30/A2P
NPN - NO+NC, 4-wire				
10...55 VDC - NO, 2-wire	IPS12-N4DO50/A2P		IPS12-N4DO68/M12	
10...55 VDC - NC, 2-wire	IPS12-N4DC50/A2P		IPS12-N4DC68/M12	

Subject to reasonable modifications due to technical advances.

Printed in Germany

Sensotronic AB • Tel.+46 44 200 800 • Fax +46 44 200 899 • info@sensotronic.se • http://www.sensotronic.se

Inductive Proximity Switches



M12 Metal Face	M12 Metal Face	M12 Metal Face	M12 Metal Face	M12 Metal Face	M12 Metal Face
4 mm - Shielded	4 mm - Shielded	4 mm - Shielded	6 mm - Unshielded	6 mm - Unshielded	6 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 IP69k, Conn. IP67 1.4305 / SS303 1.4305 / SS303 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 IP69k, Conn. IP67 1.4305 / SS303 1.4305 / SS303 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 IP69k, Conn. IP67 1.4305 / SS303 1.4305 / SS303 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 IP69k, Conn. IP67 1.4305 / SS303 1.4305 / SS303 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 IP69k, Conn. IP67 1.4305 / SS303 1.4305 / SS303 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 IP69k, Conn. IP67 1.4305 / SS303 1.4305 / SS303 Connector M12, 4-pole Integrated
IMF12-S4PO50/A2P IMF12-S4PC50/A2P	IMF12-S4PO50/M12 IMF12-S4PC50/M12	IMF12-S4PO68/M12 IMF12-S4PC68/M12	IMF12-N6PO30/A2P IMF12-N6PC30/A2P	IMF12-N6PO50/A2P IMF12-N6PC50/A2P	IMF12-N6PO50/M12 IMF12-N6PC50/M12
IMF12-S4NO50/A2P IMF12-S4NC50/A2P	IMF12-S4NO50/M12 IMF12-S4NC50/M12	IMF12-S4NO68/M12 IMF12-S4NC68/M12	IMF12-N6NO30/A2P IMF12-N6NC30/A2P	IMF12-N6NO50/A2P IMF12-N6NC50/A2P	IMF12-N6NO50/M12 IMF12-N6NC50/M12