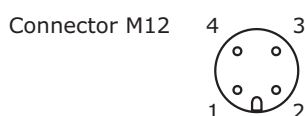
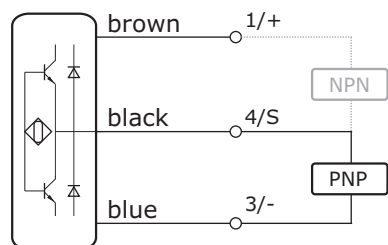
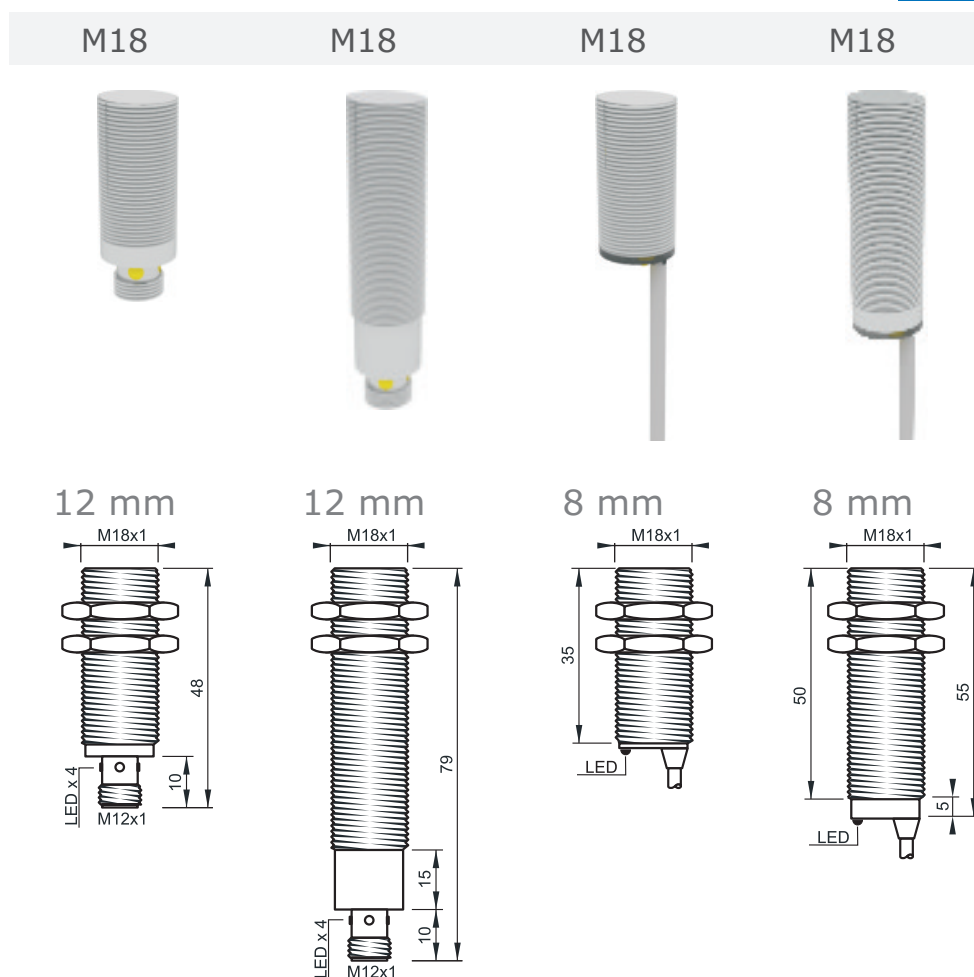


Inductive Proximity Switches

Output Schematics



Not to be
used for
Safety
Applications



SPECIFICATIONS

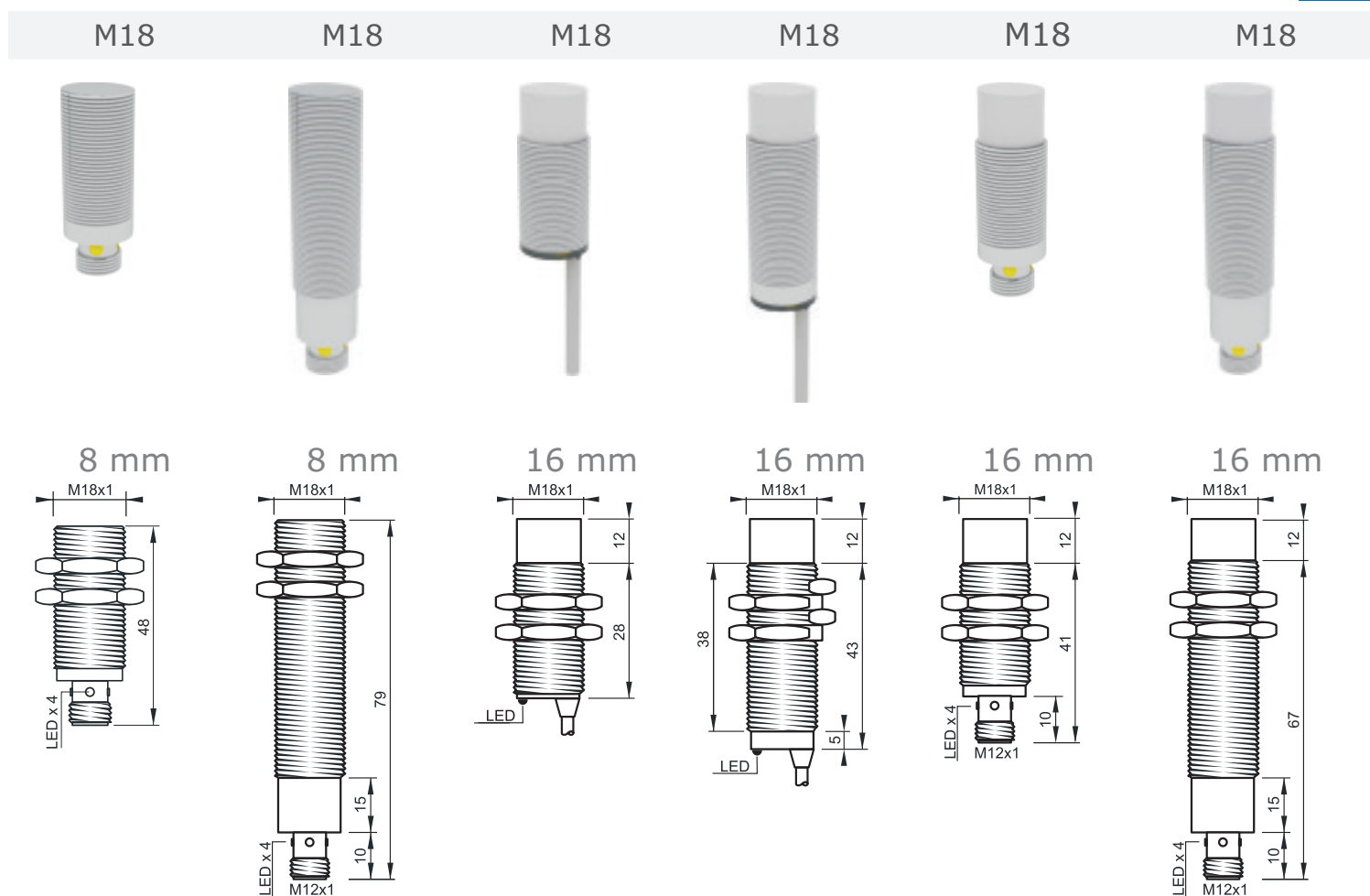
	M18x1	M18x1	M18 Metal Face	M18 Metal Face
Sensing Distance	12 mm - Shielded	12 mm - Shielded	8 mm - Shielded	8 mm - Shielded
Operating Voltage	10...30 VDC, 3-wire	10...30 VDC, 3-wire	10...30 VDC, 3-wire	10...30 VDC, 3-wire
Reverse Polarity Protection	built-in	built-in	built-in	built-in
Current Consumption	< 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	300 Hz	300 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	IP69k, Conn. IP67	IP69k, Conn. IP67
Sensing Face Material	POM	POM	1.4305 / SS303	1.4305 / SS303
Housing Material	Plated Brass	Plated Brass	1.4305 / SS303	1.4305 / SS303
Connection	Connector M12, 4-pole	Connector M12, 4-pole	High-Flex PVC, 2m	High-Flex PVC, 2m
Output Indicator	Integrated	Integrated	Integrated	Integrated
Article Code				
PNP - NO, 3-wire	IPS18-S12PO48/M12	IPS18-S12PO79/M12	IMF18-S8PO35/A2P	IMF18-S8PO55/A2P
PNP - NC, 3-wire	IPS18-S12PC48/M12	IPS18-S12PC79/M12	IMF18-S8PC35/A2P	IMF18-S8PC55/A2P
PNP - NO+NC, 4-wire				
NPN - NO, 3-wire	IPS18-S12NO48/M12	IPS18-S12NO79/M12	IMF18-S8NO35/A2P	IMF18-S8NO55/A2P
NPN - NC, 3-wire	IPS18-S12NC48/M12	IPS18-S12NC79/M12	IMF18-S8NC35/A2P	IMF18-S8NC55/A2P
NPN - NO+NC, 4-wire				
10...55 VDC - NO, 2-wire				
10...55 VDC - NC, 2-wire				

Subject to reasonable modifications due to technical advances.

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Inductive Proximity Switches



M18 Metal Face	M18 Metal Face	M18x1	M18x1	M18x1	M18x1
8 mm - Shielded	8 mm - Shielded	16 mm - Unshielded	16 mm - Unshielded	16 mm - Unshielded	16 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 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 150 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 150 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 150 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 150 Hz < 1 % (Sn) 3...15 % -25...75 °C IP67 POM Plated Brass Connector M12, 4-pole Integrated
IMF18-S8PO48/M12 IMF18-S8PC48/M12	IMF18-S8PO79/M12 IMF18-S8PC79/M12	IPS18-N16PO40/A2P IPS18-N16PC40/A2P	IPS18-N16PO55/A2P IPS18-N16PC55/A2P	IPS18-N16PO53/M12 IPS18-N16PC53/M12	IPS18-N16PO79/M12 IPS18-N16PC79/M12
IMF18-S8NO48/M12 IMF18-S8NC48/M12	IMF18-S8NO79/M12 IMF18-S8NC79/M12	IPS18-N16NO40/A2P IPS18-N16NC40/A2P	IPS18-N16NO55/A2P IPS18-N16NC55/A2P	IPS18-N16NO53/M12 IPS18-N16NC53/M12	IPS18-N16NO79/M12 IPS18-N16NC79/M12
			IPS18-N16DO55/A2P IPS18-N16DC55/A2P		IPS18-N16DO79/M12 IPS18-N16DC79/M12