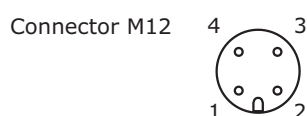
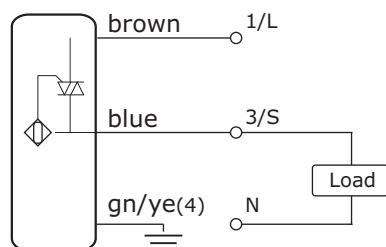


# Inductive Proximity Switches

## 20... 250 VAC

### Output Schematics



M12



M12



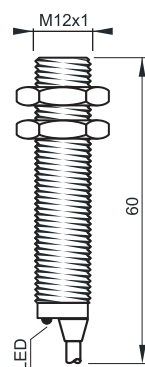
M12



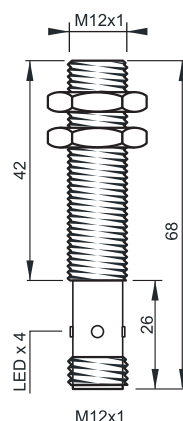
M12



2 mm



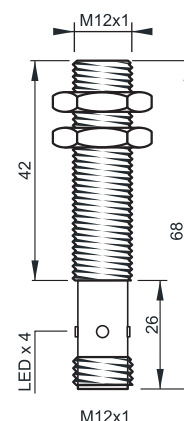
2 mm



4 mm



4 mm



### SPECIFICATIONS

|                             | M12x1                 | M12x1                 | M12x1                 | M12x1                 |
|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sensing Distance            | 2 mm - Shielded       | 2 mm - Shielded       | 2 mm - Shielded       | 4 mm - Shielded       |
| Operating Voltage           | 20... 250 VAC, 2-wire | 20... 250 VAC, 2-wire | 20... 250 VAC, 2-wire | 20... 250 VAC, 2-wire |
| Reverse Polarity Protection | built-in              | built-in              | built-in              | built-in              |
| Current Consumption         | < 3 mA                | < 3 mA                | < 3 mA                | < 3 mA                |
| Current Load Capability     | 400 mA                | 400 mA                | 400 mA                | 400 mA                |
| Short Circuit Protection    | -                     | -                     | -                     | -                     |
| Voltage Drop                | < 8 V @ 400 mA        | < 8 V @ 400 mA        | < 8 V @ 400 mA        | < 8 V @ 400 mA        |
| Switching Frequency         | 25 Hz                 | 25 Hz                 | 25 Hz                 | 25 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     | Connector M12, 4-pole | High-Flex PVC, 2m     | Connector M12, 4-pole |
| Output Indicator            | Integrated            | Integrated            | Integrated            | Integrated            |
| Article Code                |                       |                       |                       |                       |

2-wire NO, 20... 250 VAC  
2-wire NC, 20... 250 VAC

IPS12-S2AO50/A2P  
IPS12-S2AC50/A2P

IPS12-S2AO68/M12  
IPS12-S2AC68/M12

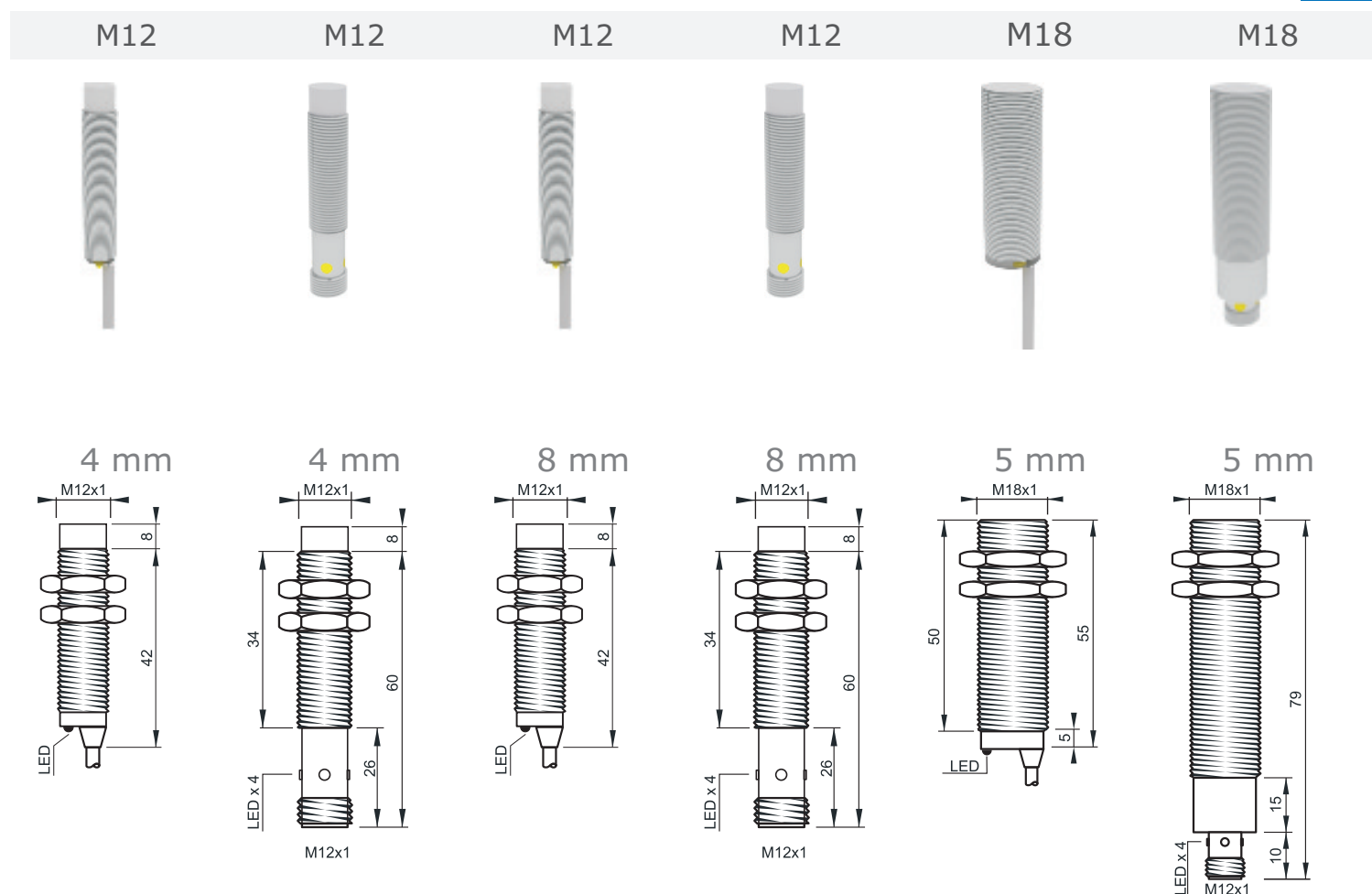
IPS12-S4AO50/A2P  
IPS12-S4AC50/A2P

IPS12-S4AO68/M12  
IPS12-S4AC68/M12

# Inductive Proximity Switches

## 20... 250 VAC

INDUCTIVE



| M12x1                          | M12x1                            | M12x1                          | M12x1                            | M18x1                          | M18x1                            |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|--------------------------------|----------------------------------|
| 4 mm - Unshielded              | 4 mm - Unshielded                | 8 mm - Unshielded              | 8 mm - Unshielded                | 5 mm - Shielded                | 5 mm - Shielded                  |
| 20... 250 VAC, 2-wire built-in | 20... 250 VAC, 2-wire built-in   | 20... 250 VAC, 2-wire built-in | 20... 250 VAC, 2-wire built-in   | 20... 250 VAC, 2-wire built-in | 20... 250 VAC, 2-wire built-in   |
| < 3 mA                         | < 3 mA                           | < 3 mA                         | < 3 mA                           | < 3 mA                         | < 3 mA                           |
| 400 mA                         | 400 mA                           | 400 mA                         | 400 mA                           | 400 mA                         | 400 mA                           |
| -                              | -                                | -                              | -                                | -                              | -                                |
| < 8 V @ 400 mA                 | < 8 V @ 400 mA                   | < 8 V @ 400 mA                 | < 8 V @ 400 mA                   | < 8 V @ 400 mA                 | < 8 V @ 400 mA                   |
| 25 Hz                          | 25 Hz                            | 25 Hz                          | 25 Hz                            | 25 Hz                          | 25 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                             |
| POM                            | POM                              | POM                            | POM                              | POM                            | POM                              |
| Plated Brass                   | Plated Brass                     | Plated Brass                   | Plated Brass                     | Plated Brass                   | Plated Brass                     |
| High-Flex PVC, 2m Integrated   | Connector M12, 4-pole Integrated | High-Flex PVC, 2m Integrated   | Connector M12, 4-pole Integrated | High-Flex PVC, 2m Integrated   | Connector M12, 4-pole Integrated |

IPS12-N4AO50/A2P  
IPS12-N4AC50/A2P

IPS12-N4AO68/M12  
IPS12-N4AC68/M12

IPS12-N8AO50/A2P  
IPS12-N8AC50/A2P

IPS12-N8AO68/M12  
IPS12-N8AC68/M12

PS18-S5AO55/A2P  
IPS18-S5AC55/A2P

IPS18-S5AO79/M12  
IPS18-S5AC79/M12

Subject to reasonable modifications due to technical advances.

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