

# Miniature Inductive 3-wire DC Proximity Switch IL1

**IMO**

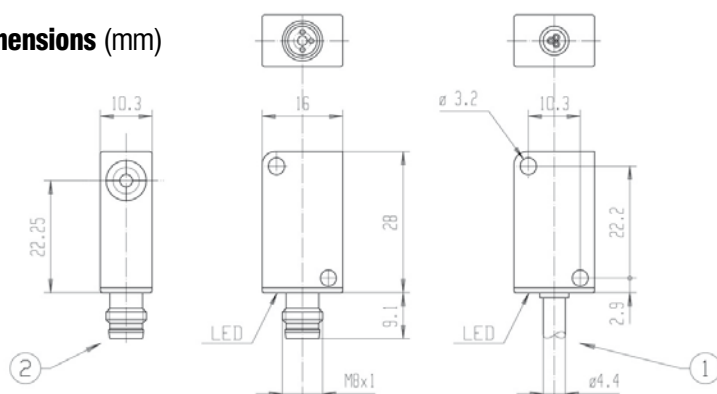
- Ultra compact rectangular strong plastic housing
- Shield or unshielded models
- IP67 Protection degree
- Short circuit protection
- LED status indicator
- Nominal sensing distance: Shielded 3mm  
Unshielded 6mm



## Options and ordering codes

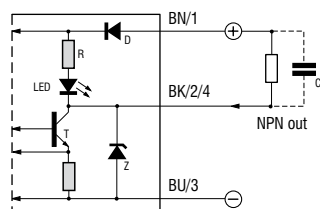
| IL1 / AN - 3A          |          |          |                                  |
|------------------------|----------|----------|----------------------------------|
| Normally open output   | <b>A</b> | <b>3</b> | Shielded                         |
| Normally closed output | <b>C</b> | <b>4</b> | Unshielded                       |
| PNP logic output       | <b>P</b> | <b>A</b> | Standard cable exit <sup>1</sup> |
| NPN logic output       | <b>N</b> | <b>F</b> | M8 plug connector <sup>2</sup>   |

## Dimensions (mm)

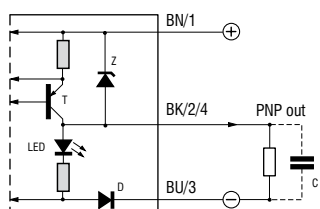


## Wiring diagrams

### NPN output

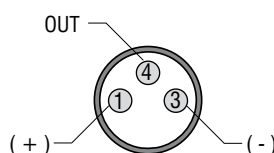


### PNP output



- 1 Axial cable exit 3 x 0.25mm<sup>2</sup> PVC 2m  
2 Protection guaranteed with plug cable connected  
3 Sensing range determined using a 24 x 24mm  
FE360 steel plate

### Connector M8



## Specifications

| Model                        | IL1                 |
|------------------------------|---------------------|
| Differential travel          | 1 to 20%            |
| Repeatability                | 5%                  |
| Supply voltage               | 10-30 VDC           |
| Ripple                       | 10% maximum         |
| Maximum consumption          | 10mA                |
| Switching frequency          | 3KHz                |
| Output type                  | NPN or PNP          |
| Output state                 | NO or NC            |
| Load current                 | 300mA               |
| Residual output voltage      | 1.5V max. IL=300mA  |
| Leakage current              | <120μA              |
| Time before switch operation | 100ms               |
| Short circuit protection     | Auto-reset          |
| Polarity reversal protection | yes                 |
| Inductive loads protection   | yes                 |
| LED status indicator         | yes (at the rear)   |
| Protection degree            | IP67                |
| Temperature range            | -25 to +70°C        |
| Temperature drift            | 10% Sr              |
| Housing material             | PA                  |
| Weight (approx.)             | 30g plug, 70g cable |

## Characteristics curves

