





### Description

The position monitoring will be screwed on the cylinder bottom and can also be mounted in a position rotated by 180°. Different versions are available according to the application conditions. A control cam is provided at the extended piston rod causing the activation of the proximity switches. The adjustment of the switching position is effected by a displacement of the proximity switches in the lateral groove. The proximity switches are switched on in a stroke range of approx. 6 mm by means of the control cam. The minimum distance to the positions to be monitored depends on the switch type and is indicated in the table.

### Function

1. Signal – unclamped position, i.e. piston rod is retracted
2. Signal – clamped position, i.e. piston rod is extended and is in the clamped area

### Important notes

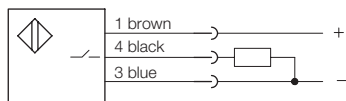
The position monitoring system is not suitable for applications where coolants are used. Additional covers also have to be provided against swarf.

### Designing – Application Conditions – Safety Measures

Careful design is required, the corresponding application conditions and safety measures have to be planned and guaranteed.

**Please do not hesitate to contact us for further information.**

### Electric circuit diagram

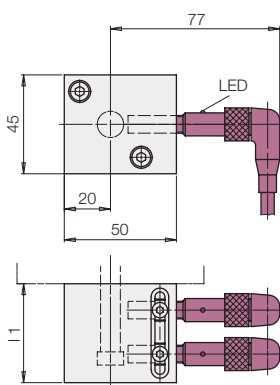


### Technical data for inductive proximity switches

|                                   |                 |
|-----------------------------------|-----------------|
| Voltage UB                        | 10 ... 30 VDC   |
| Ripple                            | max. 15%        |
| Switching function                | closing         |
| Basic technology                  | PNP             |
| Material of housing               | stainless steel |
| Code class according to DIN 40050 | IP 67           |

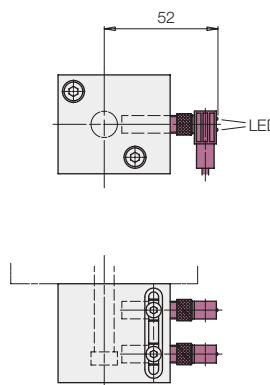
#### Type A

Standard version



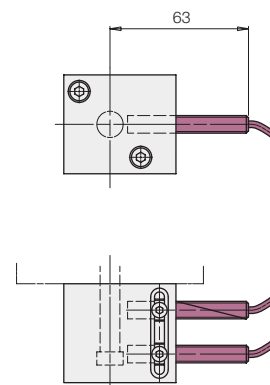
#### Type B

Compact version



#### Type C

for high environmental temperature

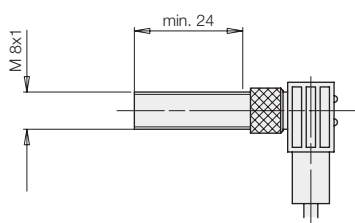


| Environmental temperature TA                        |                 | - 25° ... + 70°C | - 25° ... + 70°C | - 25° ... + 120°C                     |
|---|-----------------|------------------|------------------|---------------------------------------|
| Min. distance of the switching positions [mm]       |                 | 13               | 8                | 8                                     |
| Connection type                                     |                 | Plug             | Plug             | Teflon cable 3 x 0.14 mm <sup>2</sup> |
| LED function display                                |                 | Yes              | At plug          | No                                    |
| Max. constant current [mA]                          |                 | 200              | 200              | 200 – off 70°:100                     |
| Nominal switch distance [mm]                        |                 | 1.5              | 1.5              | 2                                     |
| Short circuit proof                                 |                 | Yes              | Yes              | No                                    |
| Connection cable [m]                                |                 | 5                | 5                | 3                                     |
| <b>Proximity switch</b>                             | <b>Part-no.</b> | <b>3829-077</b>  | <b>3829-098</b>  | <b>3829-087</b>                       |
| <b>Plug with cable</b>                              | <b>Part-no.</b> | <b>3829-088</b>  | <b>3829-099</b>  | <b>-</b>                              |
| L1 complete [mm]                                    |                 | 45               | 45               | 45                                    |
| <b>Position monitoring up to 30 mm total stroke</b> | <b>Part-no.</b> | <b>0382-300</b>  | <b>0382-301</b>  | <b>0382-302</b>                       |
| L1 complete [mm]                                    |                 | 65               | 65               | 65                                    |
| <b>Position monitoring up to 50 mm total stroke</b> | <b>Part-no.</b> | <b>0382-310</b>  | <b>0382-311</b>  | <b>0382-312</b>                       |

### Position monitoring without proximity switches

In case of use of own inductive proximity switches the switching unit M 8x1 is also available without proximity switches.

### Required dimensions



|                   |          |  | <b>Part-no.</b> |
|-------------------|----------|--|-----------------|
| Total stroke [mm] | up to 30 |  | <b>0382-303</b> |
| Total stroke [mm] | up to 50 |  | <b>0382-313</b> |