

# Ultra short proximity switches with long sensing ranges.

Type M8 with round sleeve  $\varnothing$  6.5 mm with M8 connector.



- Optimum size for very limited space.
- Long sensing range 2 mm f, 4 mm nf for more plant uptime.
- Resistant to oils and coolants, IP 67.
- M8 connector for fast mounting.
- Robust stainless steel housing for higher tightening torques.

Position sensors

Increased sensing range

  
 M8 connector

IP 67

Resistant to oils and coolants

### Short overall length

The total length is only 30 mm or 50 mm. Thus the proximity switches can also be used where space is at a premium.

### Long sensing ranges

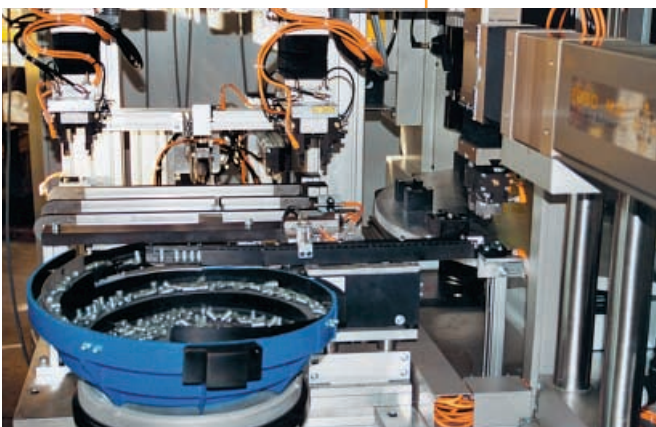
The increased sensing range is ensured over the whole temperature range. It provides additional protection against failures caused by mechanical damage. With these new sensors, sensing ranges of 2 mm (flush) and 4 mm (non flush) can be reached. In practice this corresponds to a value which is up to 2 times higher in comparison to standard switches.

### Resistant to oils and coolants

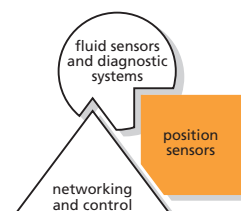
Due to their tried and tested design and the use of special materials these sensors are particularly resistant to aggressive environmental conditions. Thus they can also be used in permanent contact with oils and coolants.

### M8 connector

The connection is made via a robust M8 connector with integrated, clearly visible 4-port LED for indication of the output status.



Assembly line of the company Robo-Mat



## Inductive, capacitive and magnetic proximity switches

**Applications:**  
Position detection in the automation and handling industries

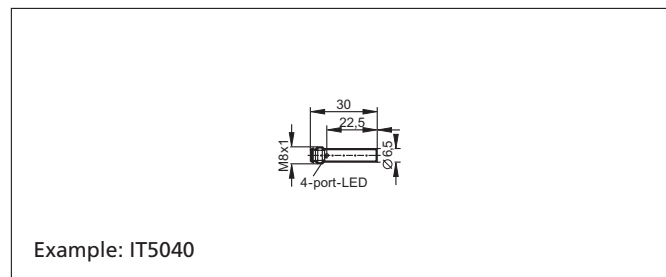
Position sensors

| Electrical design                 | DC PNP                     |        |        |          |        |
|-----------------------------------|----------------------------|--------|--------|----------|--------|
| Connection                        | 3-wire                     |        |        |          |        |
| Type                              | Ø 6.5 mm                   |        |        | M8       |        |
| Nominal sensing range $s_n$ [mm]  | 2 f                        | 4 nf   |        | 2 f      | 4 nf   |
| Output                            |                            |        |        |          |        |
| Order no.                         | IT5040                     | IT5041 | IT5044 | IE5366   | IE5367 |
| Operating voltage [V]             | 10...30 DC                 |        |        |          |        |
| Current rating [mA]               | 100                        |        |        |          |        |
| Short circuit protection, pulsed  | •                          |        |        |          |        |
| Rev. polarity / overl. protection | • / •                      |        |        |          |        |
| Current cons. at 24 V [mA]        | < 15                       |        |        |          |        |
| Output status indication LED      | yellow (4 x 90°)           |        |        |          |        |
| Switching frequency [Hz]          | 1100                       | 1000   | 1000   | 1400     | 1000   |
| Operating temperature [°C]        | -20...70                   |        | 0...60 | -20...70 |        |
| Protection                        | IP 67, III                 |        |        |          |        |
| Housing material                  | high-grade stainless steel |        |        |          |        |
| Sensing face                      | LCP                        |        |        |          |        |
| Total length [mm]                 | 30                         |        | 50     | 30       |        |
| Resistant to oils and coolants    | •                          | –      | •      | •        | –      |
| Connection                        | M8 connector               |        |        |          |        |
| Wiring diagram                    |                            |        |        |          |        |

### Sockets and splitter boxes

| Socket type | Design   | Order no. |
|-------------|--|-----------|
| ifm         | 5 m (PUR), M8 angled, with LED   | E11493    |
| ifm         | 5 m (PUR), M8 straight, without LED                                    | E11487    |
| ifm         | splitter box M8, 8 locations, 3 poles with connection cable 5 m (PUR)  | E11214    |
| ifm         | splitter box M8, 8 locations, 3 poles with connection cable 10 m (PUR) | E11215    |

### Dimensions



### Accessories

| Description                                | Order no. |
|--|-----------|
| Mounting clamp for type Ø 6.5 mm aluminium | E11607    |
| Mounting clamp for type M8, aluminium      | E10221    |
| Mounting clamp for type M8, plastic        | E11521    |
| Angle bracket for type M8, stainless steel | E10734    |
| Mounting sleeve with end stop M8, brass    | E10848    |

