



# Special functions | Factor 1

## Proximity switches

M30  
Ø 80 mm / Ø 160 mm

DC 10...30 V

Correction factor 1  
for all metals



| Design                                                                                                                                                                    | M30x1.5                    | M30x1.5      | Ø 80 mm                                  | Ø 160 mm     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|------------------------------------------|--------------|
| Dimensions                                                                                                                                                                |                            |              |                                          |              |
| Installation<br>flush (f)<br>non flush (nf)<br>adjustable (a)                                                                                                             |                            |              |                                          |              |
| Operating distance sn [mm]                                                                                                                                                | 10 f                       | 20 nf        | 70 nf-a                                  | 150 nf-a     |
| Switching output PNP                                                                                                                                                      |                            |              |                                          |              |
| ID-No.                                                                                                                                                                    | P31135                     | P31136       | P31141                                   | P31142       |
| Type                                                                                                                                                                      | IGBS 010 GSP               | IGBS 020 GSP | IDBS 080 GPP                             | IDBS 160 GPP |
| Supply voltage [V]                                                                                                                                                        | 10...30 DC                 |              |                                          |              |
| Switching current [mA]                                                                                                                                                    | 200                        |              |                                          |              |
| Short circuit proof                                                                                                                                                       | •                          |              |                                          |              |
| Current consumption [mA]                                                                                                                                                  | 25                         |              |                                          |              |
| Reverse protection                                                                                                                                                        | •                          |              |                                          |              |
| Voltage drop max. [V]                                                                                                                                                     | 2                          |              |                                          |              |
| Switching frequency [Hz]                                                                                                                                                  | 300                        |              | 20                                       |              |
| Ambient temperature [°C]                                                                                                                                                  | -25...+75                  |              |                                          |              |
| EMC-class                                                                                                                                                                 | A                          |              |                                          |              |
| Protection [EN 60529]                                                                                                                                                     | IP 67                      |              |                                          |              |
| Housing material                                                                                                                                                          | Br-Ni / PBT                |              | PBT / Aluminium                          |              |
| Connection                                                                                                                                                                | M12 connector              |              | PG-plug connection<br>2 m, 3x0.5 mm² PVC |              |
| PG-plug-system                                                                                                                                                            |                            |              |                                          |              |
| AC 1: BN<br>2: BU<br>3: BK                                                                                                                                                | DC 1: BN<br>2: BU<br>3: BK |              |                                          |              |
| <div>Schalter / switch</div> <div>Disconnect power supply before pulling off plug connector.<br/>Spannungsversorgung abschalten bevor Steckverbindung gezogen wird.</div> |                            |              |                                          |              |