

A New Chapter in Safety




Intelligent Technology, Simple Operation

Pepperl+Fuchs inductive safety sensors come with SIL 2 functional safety and PL d Machinery Directive approvals. With redundant implementation, even SIL 3/PL e can be achieved. High characteristic safety values enable easy integration into the safety loop and prolong operating intervals. With intelligent electronics, the sensors do not have a dead band. This means that no minimum distance needs to be maintained between the sensor and the target. Simple standard metal targets can be used for detection; no special coding is required. A standardized OSSD interface and comprehensive safety documentation ensure quick and easy integration of the new safety sensors.

Highlights

- OSSD interface for direct connection to the safety control or I/O module
- Use of standard metal actuators with no dead band in front of the sensor—no adjustment required
- Ideal for demanding applications with extended temperature range and E1 approval
- High safety values for reduced inspection intervals and easier integration into the safety loop

Selected technical data

| | 12GM/GH series | 18GM/GH series | 30GM/GH series | Varikont L2M series |
|---------------------------|---|---|--|---|
| |  |  |  |  |
| Search term | NS*-12G* | NS*-18G* | NS*-30G* | NS*-L2M* |
| Max. sensing range | | | | |
| Flush | 2 mm | 5 mm | 10 mm | 15 mm |
| Non-flush | 4 mm | 8 mm | 15 mm | 20 mm |
| Output type | DC, OSSD | | | |
| Connection | M12, cable connection | | | M12 |
| Temperature range | -20 ... 70 °C, -40 ... 85 °C (M1) | | | -20 ... 70 °C |
| Approvals | PL d/SIL 2 (red. PL e/SIL 3), CE, UL, E1 | | | PL d/SIL 2 (red. PL e/SIL 3), CE, UL |
| Housing material | Brass, stainless steel (V4A) | | | Plastic (PA) |
| Dimensions | Ø M12 | Ø M18 | Ø M30 | 40 × 40 × 40 mm |