



PP1 series

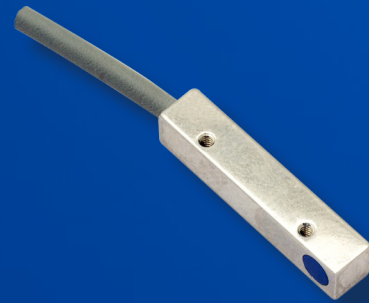
5 x 5 mm cubic
miniaturized inductive sensors



5 x 5 mm cubic
miniaturized

features

- Extremely reduced dimensions: 5 x 5 x 25 mm length
- Supply voltage 10...30 Vdc, output current 200 mA
- Led status indicator
- IP 67 housing protection
- Complete protection against electrical damages



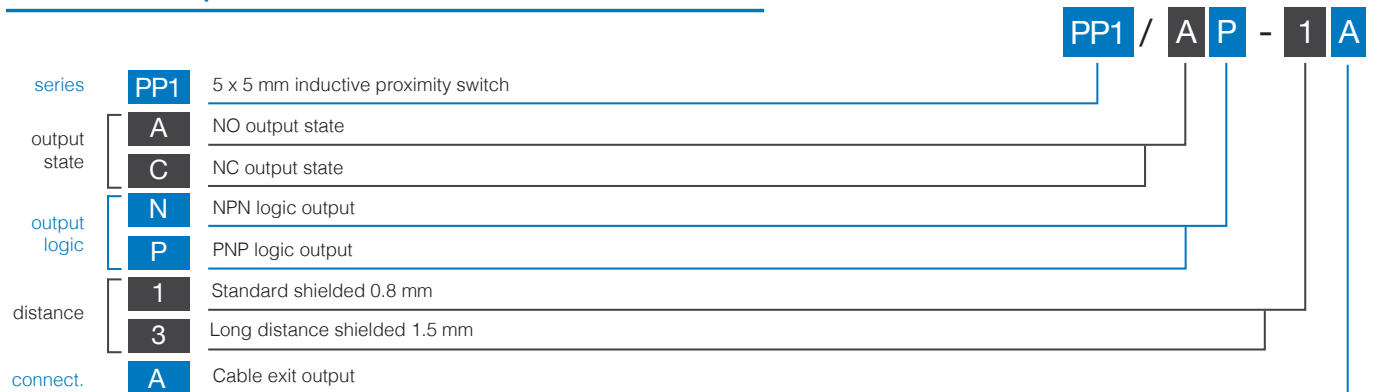
web contents



- Application notes
- Photos
- Catalogue / Manuals



code description



available models

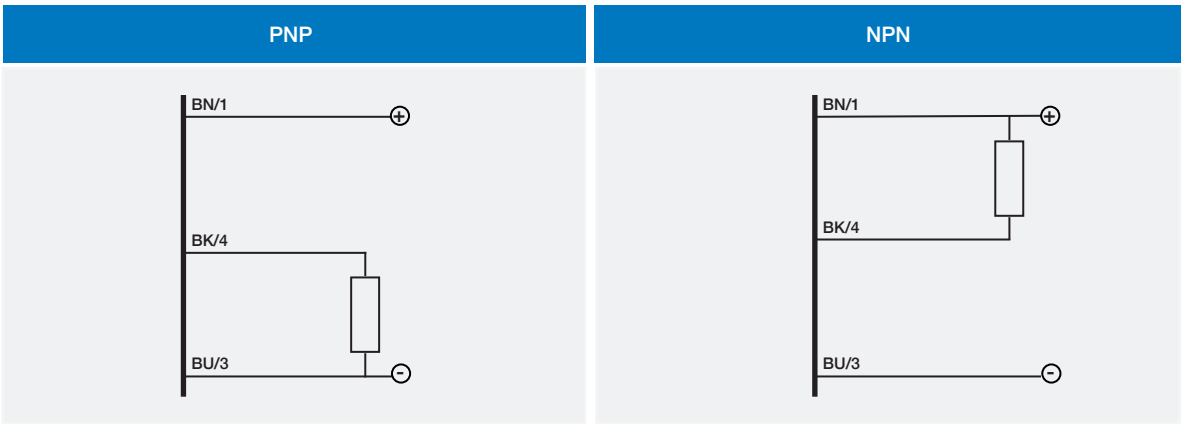
| diamensoni (mm) | installation | distance | plug | distance (mm) | NPN/NO | NPN/NC | PNP/NO | PNP/NC |
|-----------------|--------------|---------------|-------|---------------|-----------|--------|-----------|--------|
| 5 X 5 X 25 | shielded | standard | cable | 0.8 mm | PP1/AN-1A | - | PP1/AP-1A | - |
| | | long distance | | 1.5 mm | - | - | PP1/AP-3A | - |

5 x 5 mm cubic
miniaturized

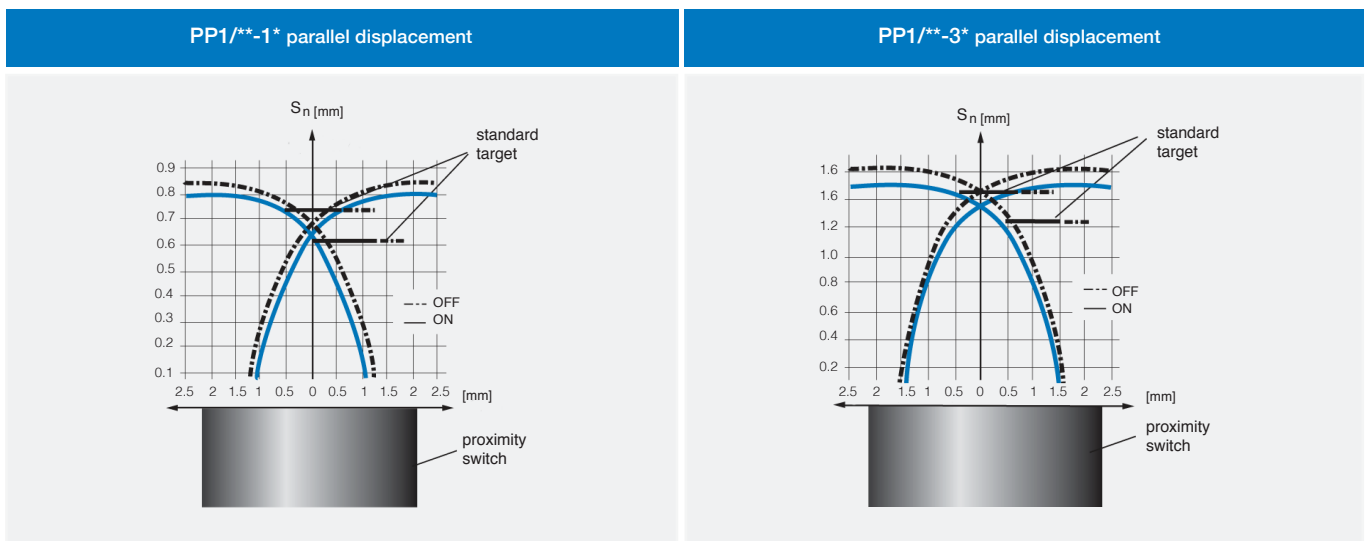
| | PP1/**-1* | PP1/**-3* |
|--------------------------------|-----------------------|------------|
| | | |
| nominal sensing distance | 0.8 mm | 1.5 mm |
| hysteresis | ≤ 10% Sr | |
| standard target | 5 x 5 x 1 mm | |
| repeatability | 2% | |
| operating voltage | 10...30 Vdc | |
| output type | NPN or PNP - NO or NC | |
| max ripple content | ≤ 20% | |
| output current | ≤ 200 mA | |
| output voltage drop | ≤ 2.0 V @ 100 mA | |
| no-load supply current | ≤ 10 mA | |
| leakage current | ≤ 0.1 mA | |
| switching frequency | ≤ 5,000 Hz | ≤ 3,000 Hz |
| power on delay | 10 ms | |
| ambient temperature range | -25...+70 °C | |
| temperature drift of Sr | ≤ 10% | |
| short-circuit protection | ● | |
| voltage reversal protection | ● | |
| induction protection | ● | |
| shocks and vibrations | IEC 60947-5-2 / 7.4 | |
| weight | 23 g | |
| protection degree | IP 67 | |
| protezione EMC: IEC 60255-5 | 1 kV | |
| IEC 61000-4-2 | level 2 | level 3 |
| IEC 61000-4-3 | level 3 | |
| IEC 61000-4-4 | level 2 | level 3 |
| housing material | stainless steel V2A | |
| active head material | polyester | |
| connection | 2 m PUR cable | |

correction factors

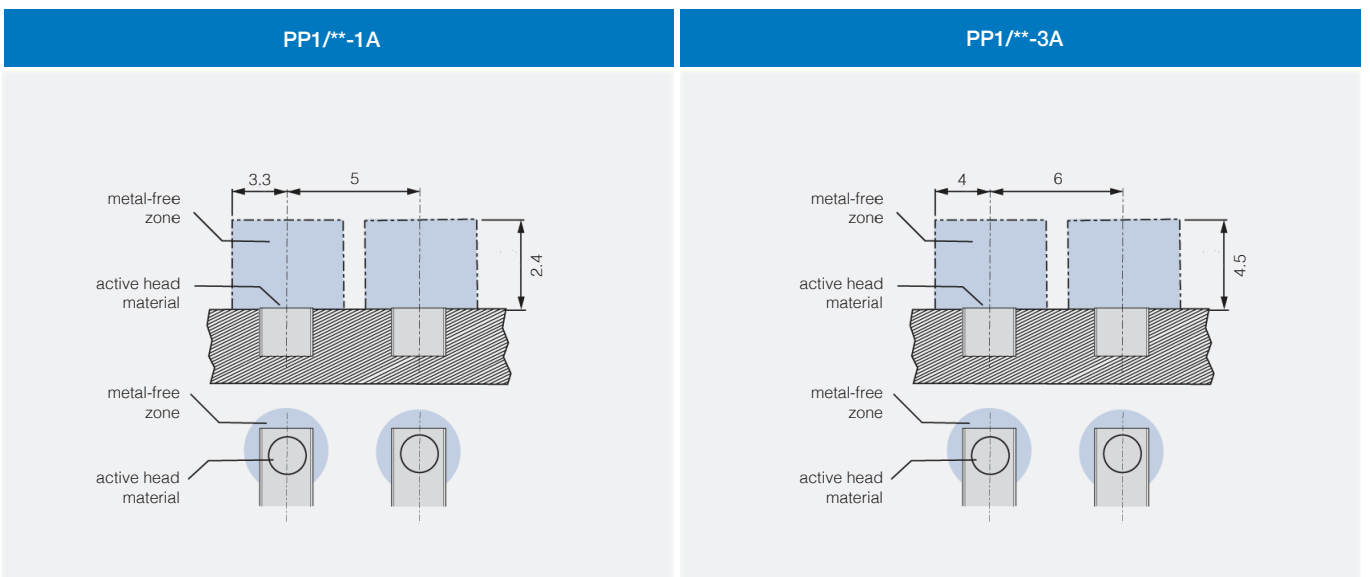
| steel FE 360 | | copper | | alluminium | | brass | | stainless steel | |
|--------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------------|-----------|
| PP1/**-1A | PP1/**-3A | PP1/**-1A | PP1/**-3A | PP1/**-1A | PP1/**-3A | PP1/**-1A | PP1/**-3A | PP1/**-1A | PP1/**-3A |
| 1.0 | 1.0 | 0.60 | 0.60 | 0.60 | 0.60 | 0.70 | 0.70 | 0.85 | 0.85 |



response diagram



installation

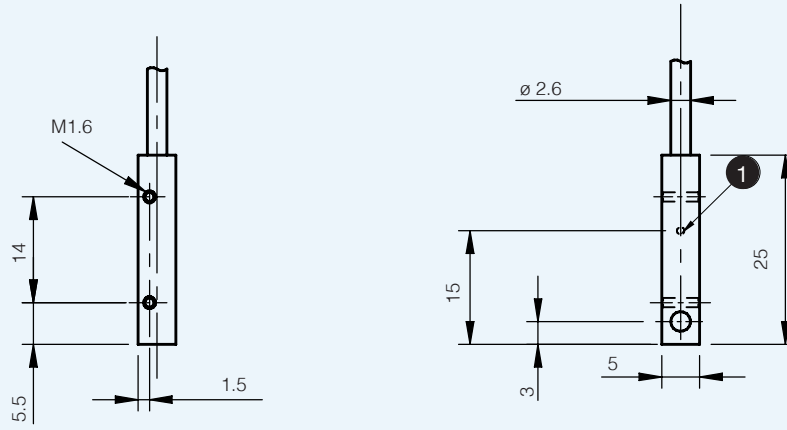




dimensions (mm)

5 x 5 mm cubic
miniaturized

PP1/**-*A



1 LED