

Metal cylindrical shape inductive sensors **LR08** series



Features

- ◆ Extended sensing distance;
- ◆ ASIC design, safe and reliable;
- ◆ Perfect choice for metallic target detection;



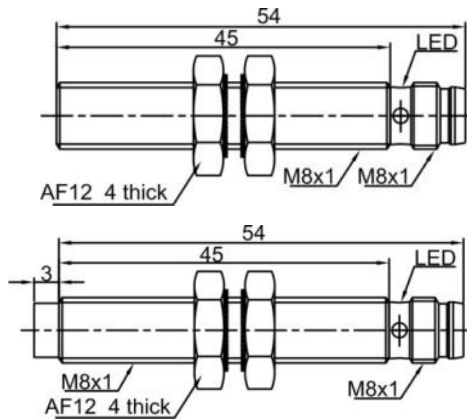
Part number

| | | | | | |
|--------|-----------------|-----------------|--------|-----------------|-----------------|
| NPN NO | LR08BF02DNOY-E1 | LR08BN04DNOY-E1 | PNP NO | LR08BF02DPOY-E1 | LR08BN04DPOY-E1 |
| NPN NC | LR08BF02DNKY-E1 | LR08BN04DNKY-E1 | PNP NC | LR08BF02DKPY-E1 | LR08BN04DKPY-E1 |

Technical specifications

| | | | | |
|---------------------------|-------------------------------|------------|-------------------------|--|
| Mounting | Quasi-flush | Non-flush | Current consumption | ≤10mA |
| Rated distance [Sn] | 2mm | 4mm | Circuit protection | Short-circuit, overload and reverse polarity |
| Assured distance [Sa] | 0...1.6mm | 0...3.2mm | Output indicator | Yellow LED |
| Dimensions | M8*54mm | M8*57mm | Ambient temperature | -25°C...70°C |
| Output | NO/NC(depends on part number) | | Ambient humidity | 35-95%RH |
| Supply voltage | 10...30 VDC | | Switching frequency [F] | 1000Hz |
| Standard target | Fe 8*8*1t | Fe12*12*1t | Voltage withstand | |
| Switch-point drifts[%/Sr] | ≤ ± 10% | | Insulation resistance | ≥50MΩ (500VDC) |
| Hysteresis range [%/Sr] | 1...20% | | Vibration resistance | 10...50Hz (1.5mm) |
| Repeat accuracy [R] | ≤ 3% | | Degree of protection | IP67 |
| Load current | ≤ 150mA | | Housing material | Stainless steel |
| Residual voltage | ≤ 2.5V | | Connection type | M8 connector |

Dimensions



Wiring diagram

