

Metal cylindrical shape inductive sensors **LR08** series


Features

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



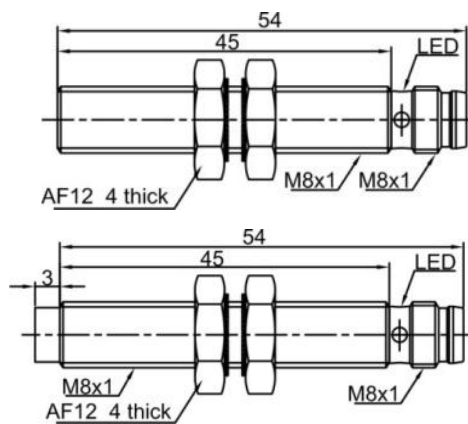
Part number

| | | | | | |
|--------|-----------------|-----------------|--------|-----------------|-----------------|
| NPN NO | LR08BF02DNOY-E1 | LR08BN04DNOY-E1 | PNP NO | LR08BF02DPOY-E1 | LR08BN04DPOY-E1 |
| NPN NC | LR08BF02DNCY-E1 | LR08BN04DNCY-E1 | PNP NC | LR08BF02DPCY-E1 | LR08BN04DPCY-E1 |

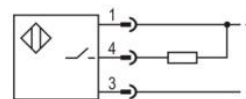
Technical specifications

| | | | | | |
|---------------------------|-------------------------------|-----------|-------------------------|--|--------|
| 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 | YellowLED | |
| 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] | 1500Hz | 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 | |

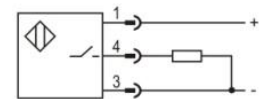
Dimensions



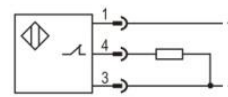
Wiring diagram



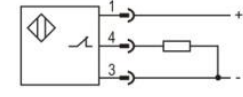
NPN NO



PNP NO



NPN NC



PNP NC

