

## Metal cylindrical shape inductive sensors LR05 series



### Features

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



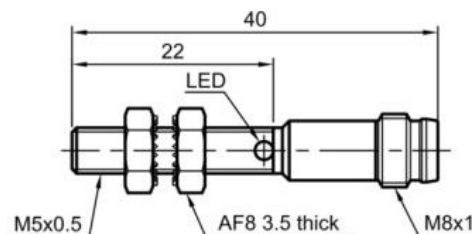
### Part number

|        |                 |        |                 |
|--------|-----------------|--------|-----------------|
| NPN NO | LR05AF15DNOY-E1 | PNP NO | LR05AF15DPOY-E1 |
| NPN NC | LR05AF15DNCY-E1 | PNP NC | LR05AF15DPCY-E1 |

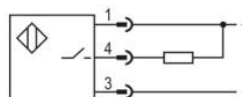
### Technical specifications

|                           |                               |                         |                   |
|---------------------------|-------------------------------|-------------------------|-------------------|
| Mounting                  | Flush                         | Current consumption     | ≤10mA             |
| Rated distance [Sn]       | 1.5mm                         | Circuit protection      | Reverse polarity  |
| Assured distance [Sa]     | 0...1.2mm                     | Output indicator        | RedLED            |
| Dimensions                | M5*40mm                       | 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] | 1200Hz            |
| Standard target           | Fe 5*5*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              | ≤100mA                        | Housing material        | Stainless steel   |
| Residual voltage          | ≤2.5V                         | Connection type         | M8 connector      |

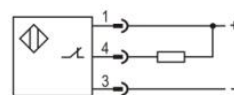
### Dimensions



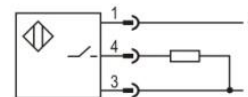
### Wiring diagram



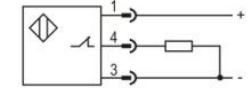
NPN NO



NPN NC



PNP NO



PNP NC

