

## Metal cylindrically shaped inductive sensors **LIR12X** series



### Features

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



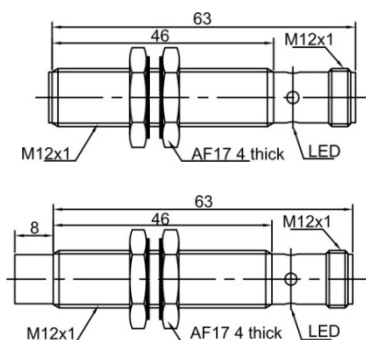
### Part number

|           |                   |                   |           |                   |                   |
|-----------|-------------------|-------------------|-----------|-------------------|-------------------|
| NPN NO    | LIR12XBF04DNOY-E2 | LIR12XBN08DNOY-E2 | PNP NO    | LIR12XBF04DPOY-E2 | LIR12XBN08DPOY-E2 |
| NPN NC    | LIR12XBF04DNCY-E2 | LIR12XBN08DNCY-E2 | PNP NC    | LIR12XBF04DPCY-E2 | LIR12XBN08DPCY-E2 |
| NPN NO+NC | LIR12XBF04DNRY-E2 | LIR12XBN08DNRY-E2 | PNP NO+NC | LIR12XBF04DPRY-E2 | LIR12XBN08DPRY-E2 |

### Technical specifications

|                            |                               |             |                         |                                              |        |
|----------------------------|-------------------------------|-------------|-------------------------|----------------------------------------------|--------|
| Mounting                   | Quasi-flush                   | Non-flush   | Current consumption     | ≤15mA                                        |        |
| Rated distance [Sn]        | 4mm                           | 8mm         | Circuit protection      | Short-circuit, overload and reverse polarity |        |
| Assured distance [Sa]      | 0...3.2mm                     | 0...6.4mm   | Output indicator        | Yellow LED                                   |        |
| Dimensions                 | M12*63mm                      | M12*71 mm   | 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] | 800 Hz                                       | 500 Hz |
| Standard target            | Fe 12*12*1t                   | Fe 24*24*1t | Dielectric strength     | 1000V/AC 50/60Hz 60S                         |        |
| 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               | ≤200mA                        |             | Housing material        | Nickel-copper alloy                          |        |
| Residual voltage           | ≤2.5V                         |             | Connection type         | M12 connector                                |        |

### Dimensions



### Wiring diagram

