

Standard function type inductive sensors **LR12X** series


## Features

- ◆ Non contact detection, safe and reliable;
- ◆ ASIC design;
- ◆ Perfect choice for metallic targets detection;



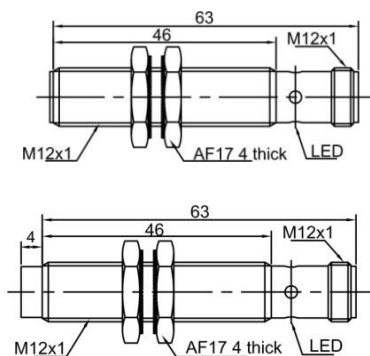
## Part number

|           |                 |                 |           |                 |                 |
|-----------|-----------------|-----------------|-----------|-----------------|-----------------|
| NPN NO    | LR12XBF02DNO-E2 | LR12XBN04DNO-E2 | PNP NO    | LR12XBF02DPO-E2 | LR12XBN04DPO-E2 |
| NPN NC    | LR12XBF02DNC-E2 | LR12XBN04DNC-E2 | PNP NC    | LR12XBF02DPC-E2 | LR12XBN04DPC-E2 |
| NPN NO+NC | LR12XBF02DNR-E2 | LR12XBN04DNR-E2 | PNP NO+NC | LR12XBF02DPR-E2 | LR12XBN04DPR-E2 |

## Technical specifications

|                            |                              |             |                         |  |         |
|----------------------------|------------------------------|-------------|-------------------------|--|---------|
| Mounting                   | Flush                        | Non-flush   | Current consumption     | ≤15mA  |         |
| 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                 | M12*63mm                     | M12*67 mm   | Ambient temperature     | -25°C...70°C                                 |         |
| Output                     | NO/NC(dependson part number) |             | Ambient humidity        | 35-95%RH                                     |         |
| Supply voltage             | 10...30 VDC                  |             | Switching frequency [F] | 1500 Hz                                      | 1000 Hz |
| Standard target            | Fe 12*12*1t                  | Fe 12*12*1t | Voltage withstand       | 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

