

## Metal cylindrical shape inductive sensors **LR18X** series



### Features

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



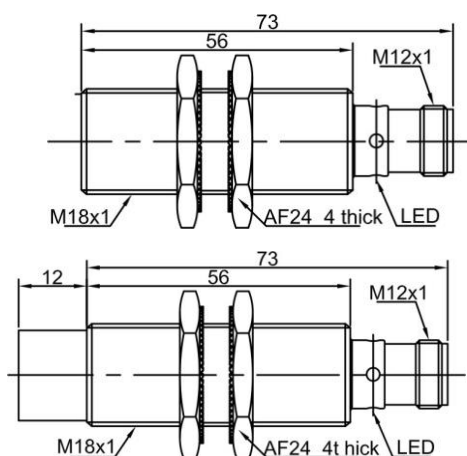
### Part number

|        |                  |                  |        |                  |                  |
|--------|------------------|------------------|--------|------------------|------------------|
| NPN NO | LR18XCF12DNOY-E2 | LR18XCN20DNOY-E2 | PNP NO | LR18XCF12DPOY-E2 | LR18XCN20DPOY-E2 |
| NPN NC | LR18XCF12DNCY-E2 | LR18XCN20DNCY-E2 | PNP NC | LR18XCF12DPCY-E2 | LR18XCN20DPCY-E2 |

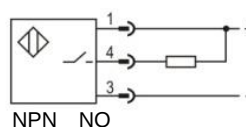
### Technical specifications

|                           |                               |             |                         |                                              |
|---------------------------|-------------------------------|-------------|-------------------------|----------------------------------------------|
| Mounting                  | Quasi -flush                  | Non-flush   | Current consumption     | ≤15mA                                        |
| Rated distance [Sn]       | 12mm                          | 20mm        | Circuit protection      | Short-circuit, overload and reverse polarity |
| Assured distance [Sa]     | 0...9.6mm                     | 0...16mm    | Output indicator        | Yellow LED                                   |
| Dimensions                | M18*73mm                      | M18*85mm    | 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] | 300Hz 150Hz                                  |
| Standard target           | Fe 36*36*1t                   | Fe 60*60*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                                |

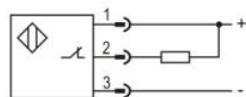
### Dimensions



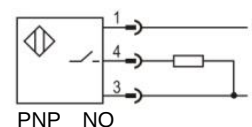
### Wiring diagram



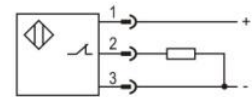
NPN NO



NPN NC



PNP NO



PNP NC

