

Metal cylindrical shape inductive sensors **LR30X** series



Features

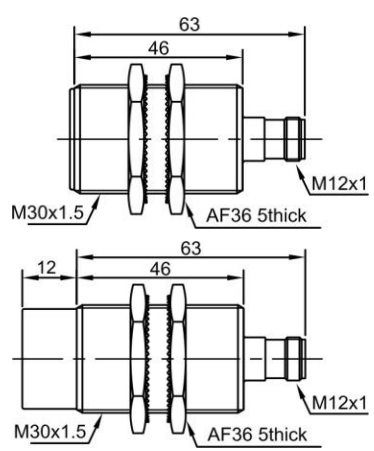
- ◆ Special compensating circuit design,;
- ◆ Wider tempature range -25~+120°C;
- ◆ Perfect choice for metal casting and glass industry etc;



| Part number |    |                  |                  |     |    |                  |                  |
|-------------|----|------------------|------------------|-----|----|------------------|------------------|
| NPN         | NO | LR30XBF10DNOW-E2 | LR30XBN15DNOW-E2 | PNP | NO | LR30XBF10DPOW-E2 | LR30XBN15DPOW-E2 |
| NPN         | NC | LR30XBF10DNCW-E2 | LR30XBN15DNCW-E2 | PNP | NC | LR30XBF10DPCW-E2 | LR30XBN15DPCW-E2 |

| Technical specifications  |                               |             |                         |                      |        |
|---------------------------|-------------------------------|-------------|-------------------------|----------------------|--------|
| Mounting                  | Flush                         | Non-flush   | Current consumption     | ≤15mA                |        |
| Rated distance [Sn]       | 10mm                          | 15mm        | Circuit protection      | Reverse polarity     |        |
| Assured distance [Sa]     | 0...8mm                       | 0...12mm    | Output indicator        | .....                |        |
| Dimensions                | M30*63mm                      | M30*75mm    | Ambient temperature     | -25°C...+120°C       |        |
| Output                    | NO/NC(depends on part number) |             | Ambient humidity        | 35...95%RH           |        |
| Supply voltage            | 10...30 VDC                   |             | Switching frequency [F] | 500 Hz               | 300 Hz |
| Standard target           | Fe 30*30*1t                   | Fe 45*45*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]       | ≤ 5%                          |             | Degree of protection    | IP67                 |        |
| Load current              | ≤ 100mA                       |             | Housing material        | Nickel-copper alloy  |        |
| Residual voltage          | ≤ 2.5V                        |             | Connection type         | M12 connector        |        |

Dimensions



Wiring diagram

