

## Standard function type inductive sensors **LR30X** series



### Features

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



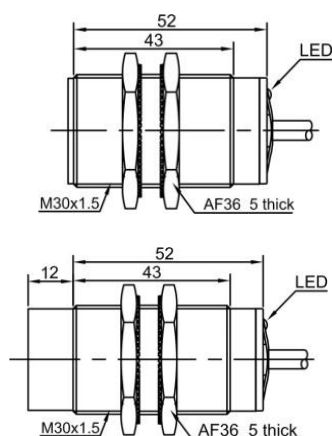
### Part number

|     |       |              |              |     |       |              |              |
|-----|-------|--------------|--------------|-----|-------|--------------|--------------|
| NPN | NO    | LR30XBF10DNO | LR30XBN15DNO | PNP | NO    | LR30XBF10DPO | LR30XBN15DPO |
| NPN | NC    | LR30XBF10DNC | LR30XBN15DNC | PNP | NC    | LR30XBF10DPC | LR30XBN15DPC |
| NPN | NO+NC | LR30XBF10DNR | LR30XBN15DNR | PNP | NO+NC | LR30XBF10DPR | LR30XBN15DPR |

### Technical specifications

|                            |                                |             |                         |                                                |        |
|----------------------------|--------------------------------|-------------|-------------------------|------------------------------------------------|--------|
| Mounting                   | Flush                          | Non-flush   | Current consumption     | $\leq 15\text{mA}$                             |        |
| Rated distance [Sn]        | 10mm                           | 15mm        | Circuit protection      | Short-circuit, overload and reverse polarity   |        |
| Assured distance [Sa]      | 0...8mm                        | 0...12mm    | Output indicator        | Yellow LED                                     |        |
| Dimensions                 | M30*52mm                       | M30*64 mm   | Ambient temperature     | $-25^{\circ}\text{C} \dots 70^{\circ}\text{C}$ |        |
| 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] | $\pm 10\%$                     |             | Insulation resistance   | $\geq 50\text{M}\Omega(500\text{VDC})$         |        |
| Hysteresis range [%/Sr]    | 1...20%                        |             | Vibration resistance    | 10...50Hz (1.5mm)                              |        |
| Repeat accuracy [R]        | $\leq 3\%$                     |             | Degree of protection    | IP67                                           |        |
| Load current               | $\leq 200\text{mA}$            |             | Housing material        | Nickel-copper alloy                            |        |
| Residual voltage           | $\leq 2.5\text{V}$             |             | Connection type         | 2m PVC cable                                   |        |

### Dimensions



### Wiring diagram

