

## Metal cylindrically shaped inductive sensors **LIR6.5Q** series



### Features

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



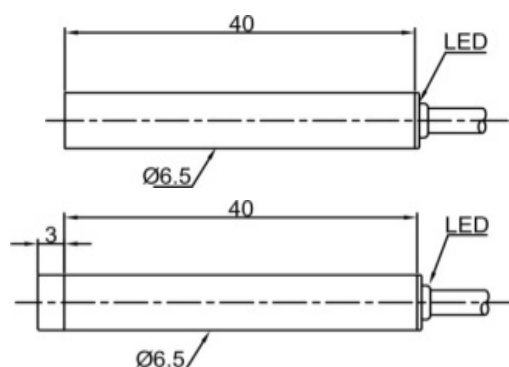
### Part number

|        |                 |                 |        |                 |                 |
|--------|-----------------|-----------------|--------|-----------------|-----------------|
| NPN NO | LIR6.5QBF02DNOY | LIR6.5QBN04DNOY | PNP NO | LIR6.5QBF02DPOY | LIR6.5QBN04DPOY |
| NPN NC | LIR6.5QBF02DNCY | LIR6.5QBN04DNCY | PNP NC | LIR6.5QBF02DPCY | LIR6.5QBN04DPCY |

### Technical specifications

|                            |                                |             |                         |                                              |       |
|----------------------------|--------------------------------|-------------|-------------------------|----------------------------------------------|-------|
| Mounting                   | Flush                          | Non-flush   | Current consumption     | ≤10mA                                        |       |
| 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                 | Ø 6.5*40mm                     | Ø 6.5*43mm  | 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] | 1000Hz                                       | 800Hz |
| Standard target            | Fe 8*8*1t                      | Fe 12*12*1t | Dielectric strength     | .....                                        |       |
| 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               | ≤150mA                         |             | Housing material        | Stainless steel                              |       |
| Residual voltage           | ≤2.5V                          |             | Connection type         | 2m PVC cable                                 |       |

### Dimensions



### Wiring diagram

