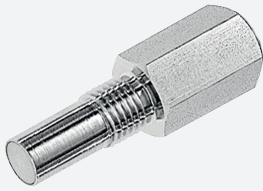


# Inductive sensor

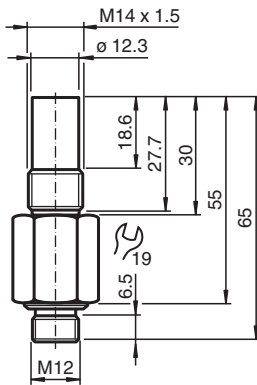
## NCB3-14GM65-E2-D-V1



- 3 mm flush
- Operating pressure 500 bar, peak pressure 800 bar
- For applications in hydraulic cylinder



### Dimensions



### Technical Data

#### General specifications

|                              |       |                    |
|------------------------------|-------|--------------------|
| Switching function           |       | Normally open (NO) |
| Output type                  |       | PNP                |
| Rated operating distance     | $s_n$ | 3 mm               |
| Installation                 |       | flush              |
| Output polarity              |       | DC                 |
| Reduction factor $r_{Al}$    |       | 0                  |
| Reduction factor $r_{Cu}$    |       | 0                  |
| Reduction factor $r_{304}$   |       | 0.85               |
| Reduction factor $r_{St37}$  |       | 1                  |
| Reduction factor $r_{Brass}$ |       | 0.15               |
| Output type                  |       | 3-wire             |

#### Nominal ratings

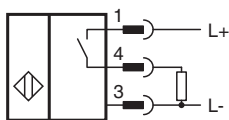
|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Operating voltage           | $U_B$ | 10 ... 30 V DC             |
| Switching frequency         | $f$   | 0 ... 500 Hz               |
| Hysteresis                  | $H$   | 3 ... 15 % typ. 10 %       |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 2$ V                 |

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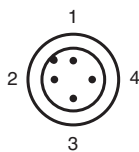
## Technical Data

|   |       |  |
|---|-------|--|
| Repeat accuracy                                 | R     | 0.1 mm   |
| Temperature drift                               |       | ± 15% max.   |
| Operating current                               | $I_L$ | ≤ 200 mA   |
| No-load supply current                          | $I_0$ | ≤ 10 mA  |
| Time delay before availability                  | $t_v$ | ≤ 10 ms  |
| <b>Limit data</b>                               |       |  |
| Operating pressure                              |       | 500 bar (7252 psi)   |
| Peak pressure                                   |       | 800 bar (11603.2 psi)  |
| <b>Compliance with standards and directives</b> |       |  |
| Standard conformity                             |       |  |
| Standards                                       |       | EN IEC 60947-5-2   |
| <b>Approvals and certificates</b>               |       |  |
| UL approval                                     |       | cULus Listed, General Purpose                                |
| CSA approval                                    |       | cCSAus Listed, General Purpose                               |
| CCC approval                                    |       | CCC approval / marking not required for products rated ≤36 V |
| <b>Ambient conditions</b>                       |       |  |
| Ambient temperature                             |       | -25 ... 80 °C (-13 ... 176 °F)                               |
| <b>Mechanical specifications</b>                |       |  |
| Connection type                                 |       | Connector plug   |
| Housing material                                |       | Stainless steel 1.4305 / AISI 303                            |
| Sensing face                                    |       | Ceramic  |
| Degree of protection                            |       | IP68   |
| <b>Connector</b>                                |       |  |
| Threading                                       |       | M12 x 1  |
| Number of pins                                  |       | 4  |
| Mass  |       | 64 g   |
| <b>Dimensions</b>                               |       |  |
| Length  |       | 65 mm  |
| Diameter  |       | 12 mm  |

## Connection



## Connection Assignment



## Connection Assignment

Wire colors in accordance with EN 60947-5-2

|   |    |         |
|---|----|---------|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |

## Additional Information

### Installation

