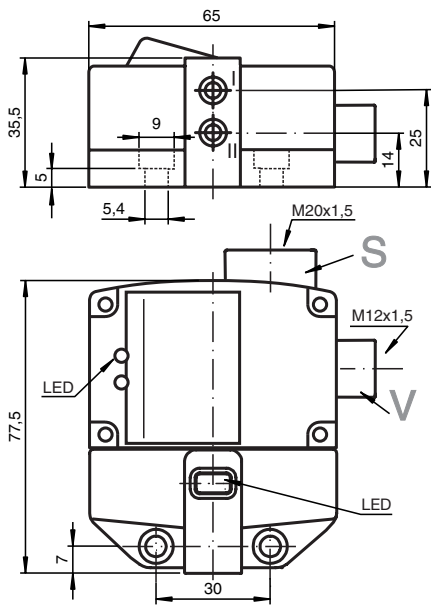


Inductive proximity switches

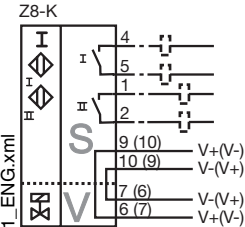
NBN3-F31K-Z8-K

Direct mounting on  
standard actuators  
Compact and stable  
housing  
Fixed setting  
Satisfies machinery  
directive



|                                   |                                        |
|-----------------------------------|----------------------------------------|
| Switching element function        | DC binary NO                           |
| Rated operating distance $s_n$    | 3 mm                                   |
| Installation                      | embeddable                             |
| Assured operating distance $s_a$  | 0 ... 2,43 mm                          |
| Reduction factor $r_{AI}$         | 0,5                                    |
| Reduction factor $r_{Cu}$         | 0,4                                    |
| Reduction factor $r_{V2A}$        | 1                                      |
| Reduction factor $r_{Si37}$       | 1,1                                    |
| Operating voltage $U_B$           | 6 ... 60 V                             |
| Switching frequency $f$           | 0 ... 500 Hz                           |
| Hysteresis $H$                    | typ. 5 %                               |
| Reverse polarity protection       | tolerant                               |
| Short circuit protection          | no                                     |
| Voltage drop $U_d$                | $\leq 6$ V                             |
| Operating current $I_L$           | 4 ... 100 mA                           |
| Off-state current $I_r$           | 0 ... 1 mA typ. 0,7 mA                 |
| Indication of the switching state | LED, yellow                            |
| Tightening torque, fixing screws  | 0,4 Nm                                 |
| EMC in accordance with            | EN 60947-5-2                           |
| Standards                         | EN 60947-5-2                           |
| Ambient temperature               | -25 ... 70 °C (248 ... 343 K)          |
| Connection (system side)          | Cage clamp terminals                   |
| Core cross-section (system side)  | 1.5/2.5 mm <sup>2</sup> flexible/rigid |
| Connection (valve side)           | Cage clamp terminals                   |
| Core cross-section (valve side)   | 1.5/2.5 mm <sup>2</sup> flexible/rigid |
| Housing material                  | PBT                                    |
| Sensing face                      | PBT                                    |
| Protection degree                 | IP68                                   |

Connection\_type:



097641\_ENG.xml

2003-03-25