



Model Number

NBN3-F25F-E8-V1-Y180448

Technical Data

General specifications

| | | |
|-----------------------------|-------|------------------------|
| Switching function | | 2 x normally open (NO) |
| Output type | | PNP |
| Rated operating distance | s_n | 3 mm |
| Installation | | flush mountable |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 2.43 mm |
| Actual operating distance | s_r | 2.7 ... 3.3 mm typ. |
| Reduction factor r_{Al} | | 0.5 |
| Reduction factor r_{Cu} | | 0.4 |
| Reduction factor r_{304} | | 1 |
| Reduction factor r_{St37} | | 1.1 |
| Output type | | 3-wire |

Nominal ratings

| | | |
|--------------------------------|-------|--|
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 500 Hz |
| Hysteresis | H | typ. 5 % |
| Reverse polarity protection | | all connections |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3 V |
| Design data | | |
| Operating current | I_L | 0 ... 200 mA |
| Off-state current | I_r | 0 ... 0.5 mA typ. 0.1 μ A at 25 °C |
| No-load supply current | I_0 | ≤ 25 mA |
| Time delay before availability | t_v | ≤ 500 ms |
| Operating voltage indicator | | LED, green |
| Switching state indicator | | LED, yellow |

Standard conformity

| | |
|------------------------|-------------------------|
| EMC in accordance with | IEC / EN 60947-5-2:2004 |
| Standards | IEC / EN 60947-5-2:2004 |

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |

Mechanical specifications

| | |
|----------------------|-----------------------------|
| Housing material | PBT |
| Sensing face | PBT |
| Degree of protection | IP67 |
| Note | Mounted on mechanical drive |

Dimensions



Electrical Connection

