

Mechanics/electronics

| | |
|---|--|
| Supply voltage | 10 V DC ... 30 V DC |
| Ripple | ≤ 10 % |
| Voltage drop | ≤ 2 V ¹⁾ |
| Current consumption | ≤ 10 mA ²⁾ |
| Hysteresis | 3 % ... 20 % |
| Reproducibility | ≤ 2 % ^{3) 4)} |
| Temperature drift (of S_r) | ± 10 % |
| EMC | According to EN 60947-5-2 |
| Continuous current I_a | ≤ 200 mA |
| Short-circuit protection | ✓ |
| Reverse polarity protection | ✓ |
| Power-up pulse protection | ✓ |
| Shock and vibration resistance | 100 g / 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz ... 55 Hz / 1 mm; 55 Hz ... 500 Hz / 60 g |
| Ambient operating temperature | -40 °C ... +100 °C |
| Housing material | Stainless steel, V2A (1.4305) |
| Sensing face material | Plastic, LCP |
| Housing length | 65 mm |
| Thread length | 39 mm |
| Tightening torque, max. | Typ. 90 Nm ⁵⁾ |
| Protection class | II ⁶⁾ |
| UL File No. | E181493 |

¹⁾ At I_a max.

²⁾ Without load.

³⁾ U_b and T_a constant.

⁴⁾ Of S_r.

⁵⁾ Valid if toothed side of nut is used.

⁶⁾ Reference voltage DC 50 V.

Reduction factors

| | |
|-----------------------------------|--|
| Note | The values are reference values which may vary |
| Stainless steel (V2A, 304) | Approx. 0.7 |
| Aluminum (Al) | Approx. 0.43 |
| Copper (Cu) | Approx. 0.37 |
| Brass (Br) | Approx. 0.43 |

Installation note

| | |
|---------------|---------------------------------------|
| Remark | Associated graphic see "Installation" |
| A | 18 mm |
| B | 36 mm |
| C | 18 mm |
| D | 36 mm |
| E | 12 mm |

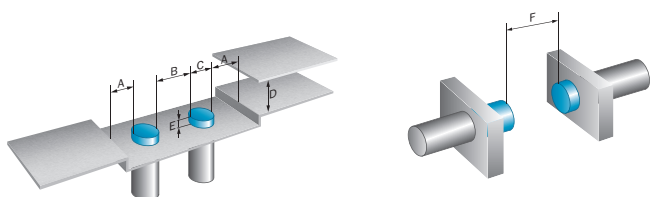
| | |
|----------|-------|
| F | 96 mm |
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Classifications

| | |
|-----------------------|----------|
| ECl@ss 5.0 | 27270101 |
| ECl@ss 5.1.4 | 27270101 |
| ECl@ss 6.0 | 27270101 |
| ECl@ss 6.2 | 27270101 |
| ECl@ss 7.0 | 27270101 |
| ECl@ss 8.0 | 27270101 |
| ECl@ss 8.1 | 27270101 |
| ECl@ss 9.0 | 27270101 |
| ETIM 5.0 | EC002714 |
| ETIM 6.0 | EC002714 |
| UNSPSC 16.0901 | 39122230 |

Installation note

Non-flush installation



Connection diagram

Cd-006

