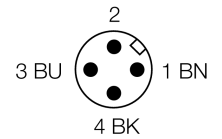
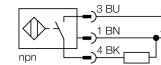


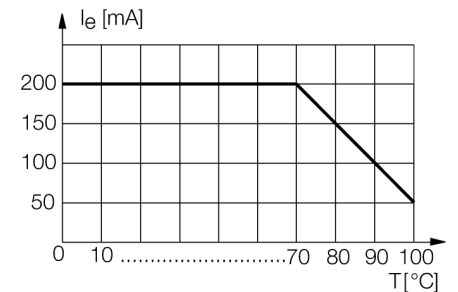
- Threaded barrel, M18 x 1
- Stainless steel, 1.4404
- Front cap made of liquid crystal polymer Vectra
- Factor 1 for all metals
- Resistant to magnetic fields
- For temperatures of -40 °C ... +100 °C
- High protection class IP69K, for harsh environments
- Special double-lip seal
- Protection against all common acid and alkaline cleaning agents
- Laser engraved label, permanently legible
- 3-wire DC, 10...30 VDC
- NO contact, NPN output
- Male M12 x 1

Wiring diagram



Functional principle

The inductive sensors for the food industry are absolutely tight and resistant to cleaning agents and disinfectants. The requirements of the protection classes IP68 and IP69K are well exceeded by our uprox®+ sensors. The sensors are entirely protected by the LCP front cap and the stainless steel housing.



| | |
|---|---|
| Type code | NI15U-EM18WD-AN6X-H1141 |
| Ident no. | 1634835 |
| Rated operating distance S_n | 15 mm |
| Mounting condition | non-flush |
| Assured sensing range | ≤ (0,81 x S _n) mm |
| Repeatability | ≤ 2 % of full scale |
| Temperature drift | 10 % |
| Hysteresis | ≤ ± 20 %, ≤ -25 °C , ≥ +70 °C |
| Ambient temperature | 3...15 % -40...+100 °C |
| Operating voltage | 10...30VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 200 mA |
| No-load current I ₀ | ≤ 15 mA |
| Residual current | ≤ 0.1 mA |
| Rated insulation voltage | ≤ 0.5 kV |
| Short-circuit protection | yes/ cyclic |
| Voltage drop at I _e | ≤ 1.8 V |
| Wire breakage / Reverse polarity protection | yes/ complete |
| Output function | 3-wire, NO contact, NPN |
| Protection class | ☐ |
| Switching frequency | 1.5 kHz |
| Design | threaded barrel, M18 x 1 |
| Dimensions | 52 mm |
| Housing material | stainless steel, V4A (1.4404) |
| Material active area | Plastic, LCP |
| Connector housing | plastic, PP |
| Admissible pressure on front cap | ≤ 15 bar |
| Max. tightening torque housing nut | 25 Nm |
| Connection | male, M12 x 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP68 / IP69K |
| MTTF | 874 years acc. to SN 29500 (Ed. 99) 40 °C |
| Switching state | LED yellow |

| | |
|------------|-------|
| Distance D | 72 mm |
| Distance W | 45 mm |
| Distance T | 54 mm |
| Distance S | 27 mm |
| Distance G | 90 mm |
| Distance N | 20 mm |

Diameter of the active area B \varnothing 18 mm



All non-flush mountable *uprox*[®]+ threaded barrel sensors can be screwed to the upper edge of the barrel. Thus safe operation is guaranteed with a reduced switching distance of max. 20 %.

When installed in an aperture plate a distance of X = 70 mm must be observed.

Accessories

| Type code | Ident no. | Description | Dimension drawing |
|-----------|-----------|--|-------------------|
| MW-18 | 6945004 | Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304) | |
| BSS-18 | 6901320 | Mounting bracket for smooth and threaded barrel devices; material: Polypropylene | |

Wiring accessories

| Type code | Ident no. | Description | Dimension drawing |
|--------------|-----------|-------------|-------------------|
| RKCV4T-2/TEL | 6626900 | | |