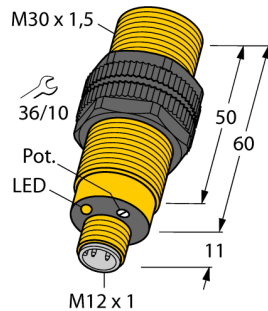
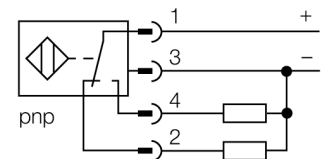


Capacitive sensor for the detection of dry pellets BCC10-S30-VP4X-H1141



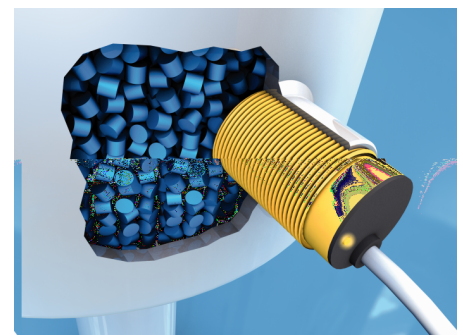
- M30 × 1.5 threaded barrel
- Plastic, PA12-GF30
- Fine adjustment via potentiometer
- Especially for dry pellets and the plastics industry
- EMC and ESD resistant
- DC 4-wire, 10...65 VDC
- Complementary contact, PNP output
- M12 x 1 male connector

Wiring Diagram



Functional principle

Level monitoring of pellets is usually done with sensors mounted in pipes, silos or on inspection windows. The new TURCK sensor series features excellent EMC and ESD properties. Mounting in metal flanges induces lateral predamping which disturbs normal sensor. This effect is neutralized with a laterally mounted shield and an integrated processing unit. A constant switching distance is thus achieved.



| | |
|---|--|
| Type designation | BCC10-S30-VP4X-H1141 |
| Ident-No. | 2503043 |
| Rated switching distance (flush) | 10 mm |
| Rated switching distance (non-flush) | 10 mm |
| Secured operating distance | ≤ (0.72 × S _n) mm |
| Hysteresis | 2...20 % |
| Temperature drift | type 20 % |
| Repeat accuracy | ≤ 2 % of full scale |
| Ambient temperature | -25...+70 °C |
| Operating voltage | 10...65 VDC |
| Residual ripple | ≤ 10 % U _s |
| DC rated operational current | ≤ 200 mA |
| No-load current I ₀ | ≤ 15 mA |
| Residual current | ≤ 0.1 mA |
| Switching frequency | 0.1 kHz |
| Isolation test voltage | ≤ 0.5 kV |
| Output function | 4-wire, Complementary contact, PNP |
| Short-circuit protection | yes/ Cyclic |
| Voltage drop at I ₀ | ≤ 1.8 V |
| Wire breakage/Reverse polarity protection | yes/ Complete |
| Design | Threaded barrel, M30 × 1.5 |
| Dimensions | 60 mm |
| Housing material | Plastic, PA12-GF30, PEI |
| Active area material | Plastic, PA12-GF30, yellow |
| Admissible pressure on front cap | ≤ 3 bar |
| Max. tightening torque housing nut | 5 Nm |
| Electrical connection | Connector, M12 × 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP67 |
| MTTF | 1080 years acc. to SN 29500 (Ed. 99) 40 °C |
| Packaging unit | 1 |
| Switching state | LED, Yellow |

**Capacitive sensor
for the detection of dry pellets
BCC10-S30-VP4X-H1141**

Accessories

| Type code | Ident-No. | Description | |
|-----------|-----------|---|--|
| MAP-M30 | 6950013 | Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor replacement) | |
| BST-30B | 6947216 | Fixing clamp for threaded barrel devices, with dead-stop; material: PA6 | |

Wiring accessories

| Type code | Ident-No. | Description | |
|---------------|-----------|--|--|
| RKC4.4T-2/TXL | 6625503 | Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com | |
| WKC4.4T-2/TXL | 6625515 | Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com | |
| WKC4.4T-2/TEL | 6625025 | Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com | |

**Capacitive sensor
for the detection of dry pellets
BCC10-S30-VP4X-H1141**



Wiring accessories

| Type code | Ident-No. | Description | |
|---------------------|-----------|--|--|
| RKC4.4T-P7X2-10/TXL | 6626184 | Connection cable, female M12, angled, 4-pin, cable length: 10m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com | |