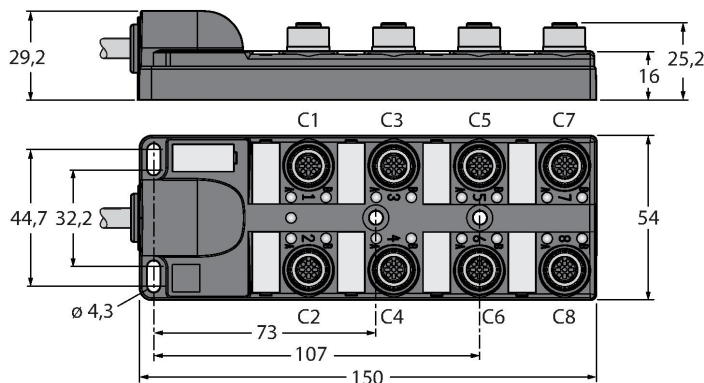


# TB-8M12-4P2-2/TXL

## Passive Actuator/Sensor Box, M12 × 1 – With Homerun Cable, 8-port



### Technical data

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Type                            | TB-8M12-4P2-2/TXL                         |
| ID no.                          | 6611950                                   |
| Distributed I/O                 | 8, with integral homerun cable            |
| Housing                         | Plastic, PA, Black                        |
| Display operating voltage       | LED, green                                |
| Display switching state         | LED, yellow                               |
| Switching function              | PNP                                       |
| I/O port                        | M12 x 1                                   |
| Number of Pins                  | 3+PE                                      |
| Contacts                        | Brass, CuZn, Gold-plated                  |
| Contact carriers                | Plastic, PA, Black                        |
| Seal                            | Plastic, FPM/FKM                          |
| Mechanical lifespan             | > 100 Mating cycles                       |
| Group terminal                  | Cable                                     |
| Cable diameter                  | Ø 10 mm                                   |
| Cable length                    | 2 m                                       |
| Cable jacket                    | PUR, Black                                |
| Core insulation                 | PVC                                       |
| Core cross-section              | 8 x 0.82 mm <sup>2</sup>                  |
| Cable conductor cross-section   | 3x 0.82 mm <sup>2</sup>                   |
| Core colors                     | WH, GN, YE, GY, PK, RD, BK, VT            |
| Core colors                     | BN, BU, GNYE                              |
| Electrical properties at +20 °C |                                           |
| Rated voltage                   | 30 V                                      |
| Current                         | 2 A per signal contact, total current 6 A |

### Features



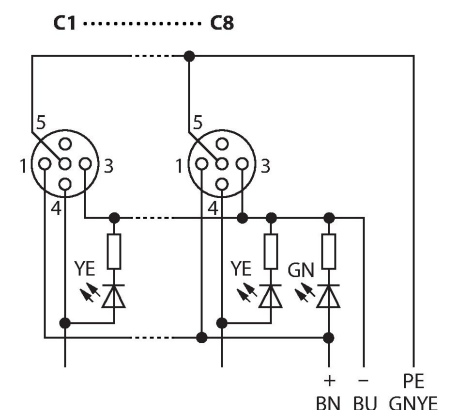
- Housing material: Nylon
- Housing color: black
- Protection class IP67
- RoHS-compliant
- CE compliant
- LED (PNP circuit)
- I/O port (number of pins): 3-pin + PE

### Contact assignment

I/O Connector

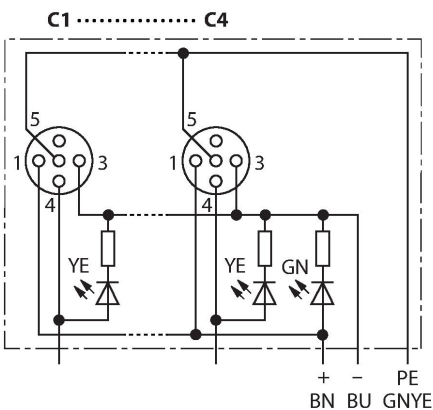


### Circuit Diagram



Technical data

|                                          |                                                               |
|------------------------------------------|---------------------------------------------------------------|
| Insulation resistance                    | $\geq 10^8 \Omega$                                            |
| forward resistance                       | $\leq 5 \text{ m}\Omega$                                      |
| Mechanical and chemical properties       |                                                               |
| Bending radius (stationary installation) | $\geq 5 \times \varnothing$                                   |
| Bending radius (flexible use)            | $\geq 15 \times \varnothing$                                  |
| Ambient temperature range (stationary)   | $-40 \text{ }^\circ\text{C} \dots +85 \text{ }^\circ\text{C}$ |



Wiring

| Port/Pin   | C1/4 | C2/4 | C3/4 | C4/4 | C5/4 | C6/4 | C7/4 | C8/4 |
|------------|------|------|------|------|------|------|------|------|
| M23 flange | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    |
| Cable      | WH   | GN   | YE   | GY   | PK   | RD   | BK   | VT   |

|             |      |        |      |
|-------------|------|--------|------|
| Power C1-C8 | 24 V | 0 V    | PE   |
| M23 flange  | 11   | 9 + 10 | 12   |
| Cable       | BN   | BU     | GNYE |

Scope of delivery

| Device         | Quantity | Description                            |
|----------------|----------|----------------------------------------|
| Junction boxes | 1        | Passive actuator/sensor junction box   |
| VS-M12-BK      | 2        | Closure caps for M12 female connectors |
| KS9/20         | 9        | Labels                                 |

Accessories

| Ident-No. | Designation       | Description                                                          |
|-----------|-------------------|----------------------------------------------------------------------|
| 6900197   | CK12-0            | Field-wireable female M23, 12-pin, straight                          |
| 6931889   | CS12-0            | Field-wireable male M23, 12-pin, straight                            |
| 6625616   | RKC5T-2-RSC5T/TXL | Actuator/sensor cable, female M12 - male M12, straight, 5-pin, 2 m * |
| 6936055   | VS-M12-BK         | Closure caps for M12 female connectors                               |
| 8015002   | KS9/20            | Labels                                                               |

\* Other lengths available on request