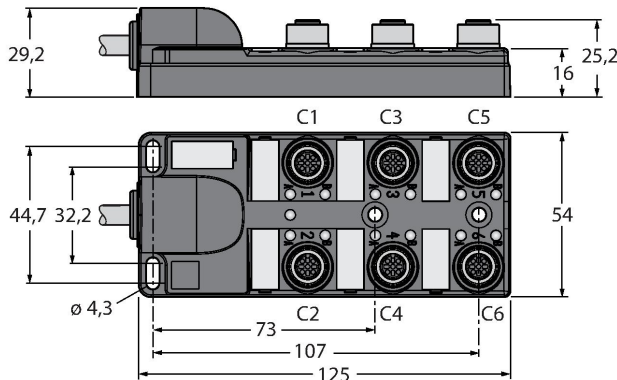


TB-6M12-4P2-2/TXL

Passive actuator/sensor junction box, M12 x 1 – 6-port, with integral homerun cable



Technical data

Type	TB-6M12-4P2-2/TXL
ID no.	6611930
Distributed I/O	6, 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 9.6 mm
Cable length	2 m
Cable jacket	PUR, Black
Core insulation	PVC
Core cross-section	6 x 0.82 mm ²
Cable conductor cross-section	3x 0.82 mm ²
Core colors	WH, GN, YE, GY, PK, RD
Core colors	BN, BU, GNYE
Electrical properties at +20 °C	
Rated voltage	30 V
Current	2 A per signal contact, total current 9 A

Features



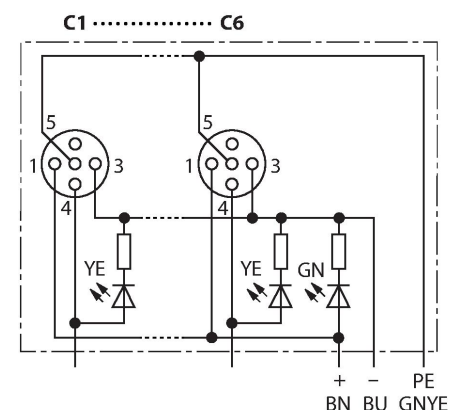
- Housing material: Nylon
- Housing color: black
- Protection class IP67
- RoHS-compliant
- CE compliant
- LED (PNP circuit)
- I/O port (number of pins): 3-pin + PE

Contact assignment

I/O Connector

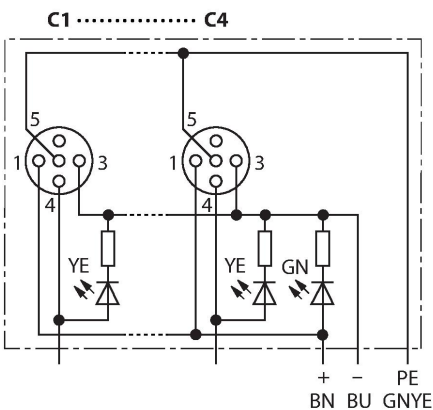


Circuit Diagram



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
M23 flange	1	2	3	4	5	6
Cable	WH	GN	YE	GY	PK	RD

Power C1-C6	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	7	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