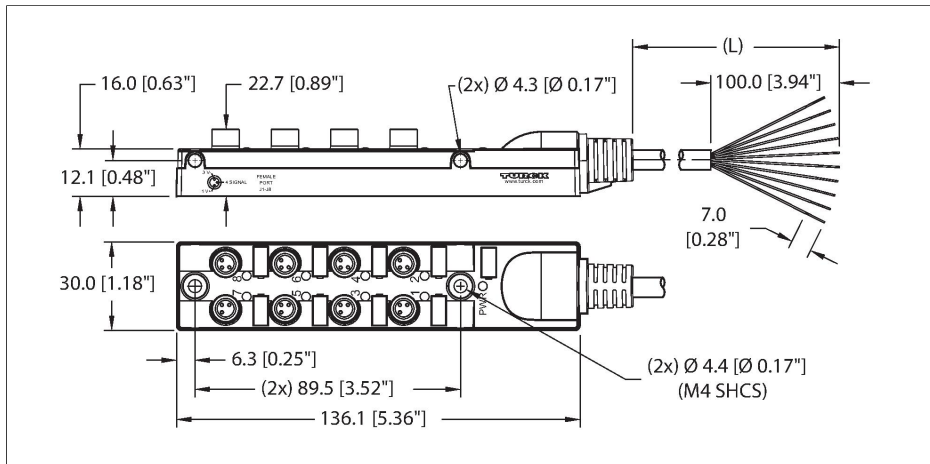


TB-8M8M-3N2-10/S101

Passive Actuator/Sensor Junction Box, 8 Ports – M8 × 1 I/O Port with Integral Homerun Cable



Technical data

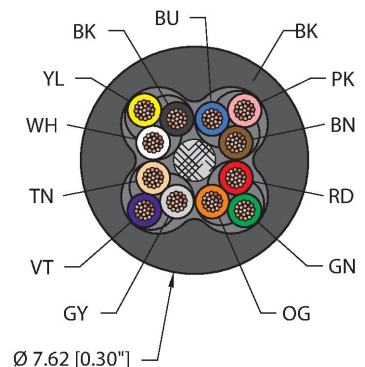
Type	TB-8M8M-3N2-10/S101
ID	UX12488
Distributed I/O	Junction box, 8, with integral homerun cable
Housing	Plastic, PA 6 GF30, Black
Display operating voltage	LED, green
Display switching state	LED, yellow
Switching function	NPN
I/O port	Female, M8 × 1
Design specification	acc. to IEC 61076-2-104
Number of Pins	3
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA 4.6 GF30, Black
Seal	O ring, Plastic, FKM/FPM
Flange housing	Brass, CuZn, Nickel-plated
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP67, IP68, IP69, IP69K
	NEMA: 1, 3, 4, 6P, 12
Group terminal	Cable, Side output
Cable	
Cable ID	RF50943
Number of cores	12
Cable diameter	Ø 7.62 mm
Cable length	10 m, (+ 50 mm or 4 % of the length/-0.0, depending on which value is larger)

Features



- Housing material: Nylon
- Housing color: black
- Protection class IP67
- RoHS conform
- cULus listed
- LED (PNP circuit)
- I/O port (number of pins): 3-pin + PE
- flexlife20
- TPE jacket, black, 12 × 24 AWG
- -40 °C cold bending strength
- Fire classes: UL1061, CSA FT1
- Flexlife and C-Track approved
- Cable length: 10 m

Cable Cross-Section



Contact assignment

Technical data

I/O connector

Cable jacket	TPE, Black
Conductor diameter	0.042 "
Conductor material	TC (tinned copper)
Core insulation	TPC-ET
Core cross-section	12 x 24 AWG [Similar to 0.25 mm²]
Arrangement of strands	19 x 0.005 "
Core colors	BU, PK, BN, RD, GN, OG, TN, GY, VT, YL, BK, WH



Electrical properties at +20 °C	
Rated voltage	30 VDC
Current	2 A per signal contact, total current 6 A
Mechanical and chemical properties	
Bending radius (stationary installation)	≥ 5 x Ø
Bending radius (flexible use)	≥ 10 x Ø
Torsion cycles	20 million Cycles
Cold flexural strength	-40 °C
Bending cycles 10 x Ø	20 million *
Bending cycles 15 x Ø	20 million Cycles
Bending cycles 20 x Ø	20 million *
	When correctly installed at 20 °C, 50 % RH and a cycle speed of ≤ 0.5 cycles per second.
C-track	Yes
Ambient temperature range (stationary)	-40 °C...+85 °C
Ambient temperature range (In motion)	5 °C...+85 °C
Ambient temperature during installation	-20 °C...+85 °C
Approval	
Approvals	CE RoHS
Note	

Using the cable in extreme temperatures, when it is exposed to certain chemicals and above the nominal cycle speed or below the nominal bending radius of the cable can reduce the flexural strength.

- We reserve the right to make technical modifications without prior notice.

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	5	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
6931780	CKCM12-11-5/S90	Connection cable, M23 female, straight, 12-pin, 5 m*
6931781	CKCM12-11-10/S90	Connection cable, M23 female, straight, 12-pin, 10 m*
6931885	CKCWM12-11-5/S90	Connection cable, M23 female, angled, 12-pin, 5 m*
6931886	CKCWM12-11-10/S90	Connection cable, M23 female, angled, 12-pin, 10 m*
6931782	CSCM-CK-CM12-11-5/S90	Extension cable, male M23 - female M23, straight, 12-pin, 5 m *
6931783	CSCM-CK-CM12-11-10/S90	Extension cable, male M23 - female M23, straight, 12-pin, 10 m *
6931887	CSCM-CK-CWM12-11-5/S90	Extension cable, male M23 straight - female M23 angled, 12-pin, 5 m *
6931888	CSCM-CK-CWM12-11-10/S90	Extension cable, male M23 straight - female M23 angled, 12-pin, 10 m *
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

Circuit Diagram

