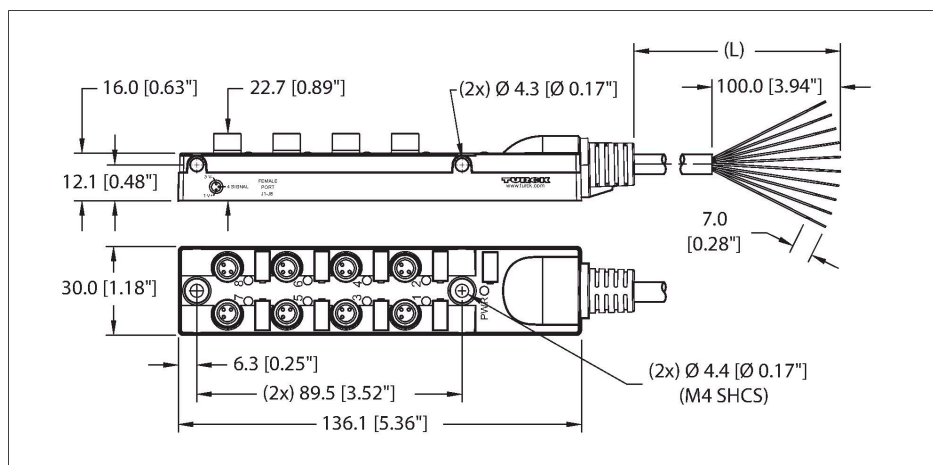


TB-8M8M-3N2-10/S101

Junction Box - Actuator/Sensor, 8-port – M8, 3 pole I/O port with cable homerun



Technical data

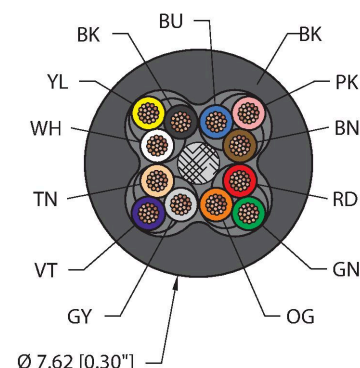
Type	TB-8M8M-3N2-10/S101
ID	UX12488
Distributed I/O	Junction box, 8, with integral homerun cable
Housing	Plastic, PA 6 GF30, Black
Display operating voltage	LED, green
Display switching state	LED, yellow
Switching function	NPN
I/O Port	Female, M8 × 1
Design specification	Acc. to IEC 61076-2-104
Number of contacts	3
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA 4.6 GF30, Black
Connector seal	O-ring, Plastic, FKM/FPM
Housing material/finish	Brass, CuZn, Nickel-plated
Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class (When coupled)	IP67, IP68, IP69, IP69K NEMA: 1, 3, 4, 6P, 12
Homerun connector	Cable, Side exit
Cable data	
Cable ID	RF50943
Total number of conductors	12

Features



- Housing material: Nylon
- Housing color: Black
- Fully encapsulated
- Protection class: IP67, IP68, IP69, IP69K; NEMA 1, 3, 4, 6P, 12
- RoHS compliant
- CE compliant
- LED (NPN circuit)
- I/O port: 3-pin
- flexlife20
- Black TPE jacket, 12X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1
- Flexlife® and C-Track Approved
- Cable length: 10 m

Cable cross section



Technical data

Cable diameter	Ø 7.62 mm
Length (L)	10 m, (+50mm or 4% of length/-0.0, Whichever is greater)
Cable jacket	TPE, Black
Conductor diameter	0.042 "
Conductor material	TC (tinned copper)
Conductor insulation material	TPC-ET
Conductor size	12 x 24 AWG [Similar to 0.25 mm²]
Number of strands x O.D.	19 x 0.005 "
Conductor colors	BU, PK, BN, RD, GN, OG, TN, GY, VT, YL, BK, WH

Electrical properties at +20 °C

Rated voltage	30 VDC
Rated voltage	DC VDC
Current	2 A per signal contact, total current 6 A

Mechanical and chemical properties

Bending radius (static)	≥ 5 x Ø
Bending radius (dynamic)	≥ 10 x Ø
Torsion rating	20 million cycles *
UL cold bend rating	-40 °C
Flex rating 10 x Ø	20 million cycles *
Flex rating 15 x Ø	20 million cycles
Flex rating 20 x Ø	20 million cycles*
	*When properly installed @ 20°C, 50%RH, and a cycle speed of ≤0.5 cycles per second.
C-Track	Yes
Ambient temperature range (static)	85 °C
Ambient temperature range (dynamic)	-40 °C...+85 °C
Temperature range (installation)	-20 °C...+85 °C

Approval

Approvals	CE UKCA RoHS
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Note

- Flex ratings may be reduced if used in extreme temperatures, exposure to certain chemicals, operating above the rated cycle speed, or operating below the rated cable bend radius.

Contact assignment

I/O Connector



Technical data

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

Scope of delivery

Device	Quantity	Description
Junction boxes	1	Passive actuator/sensor junction box
PSGK-MC	2	Closure caps for M8 female connectors
KS5/10	9	Labels

Accessories

Ident-No.	Part Number	Description
100021083	BKMK 14-954-5/S101	Connection cordset, female, M16, 14-pin, straight, 5m * (homerun)
U2-07158	BK 14-0	Field-wireable, female, M16, 14-pin, straight (6-8mm)
U2-07157	BS 14-0	Field-wireable, male, M16, 14-pin, straight (6-8mm))
A1050	KS 5/10 (10/LABELS)	Labels
U0135-6	PSG 3M-2	Cordset, male, M8x1, 3-pin, straight, 2m * (I/O port)
U0136-4	PSW 3M-2	Cordset, male, M8x1, 3-pin, right-angle, 2m * (I/O port)
U2-11982	PSGK-MC (8/BAG)	Dust cap, male, M8x1, (8/BAG)
A900154	TORQUE-WRENCH-SET-M12&M8-LEGACY	Torque wrench set, Torque driver, torque setting tool, M12 fitting, M8 fitting.
A900102	PICOBX ADAPTOR PLATE, 8 PORT (1PACK)	For mounting new style picobox to existing mounting holes. Allows new picobox to utilize the previous version mounting hole locations.

* Other lengths available on request

Circuit Diagram

