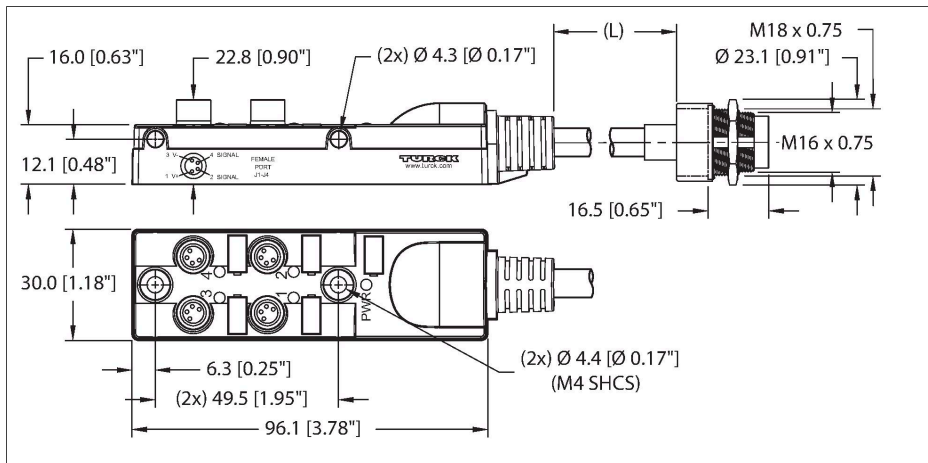


TB-4M8M-4-0.9-BSFD14/S90

Junction Box - Actuator/Sensor, 4-port – M8, 4 pole I/O port with cable homerun



Technical data

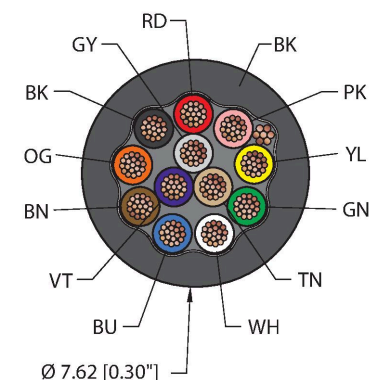
Type	TB-4M8M-4-0.9-BSFD14/S90
ID	UX16013
Distributed I/O	Junction box, 4, with M16 homerun connector
Housing	Plastic, PA 6 GF30, Black
I/O Port	Female, M8 × 1
Design specification	Acc. to IEC 61076-2-104
Number of contacts	4
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA 4.6 GF30, Black
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	Male, M16 × 0.75 with cable, Side exit
Connector B	M16 × 0.75
Number of contacts	14
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPE, Yellow
Flange housing	Brass, CuZn, Nickel-plated

Features



- Housing material: Nylon
- Housing color: Black
- Fully encapsulated
- Protection class: IEC: IP67
- RoHS compliant
- CE compliant
- I/O port: 4-pin
- General Purpose Cable
- Black TPU jacket, shielded, 12X22 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1
- Cable length: 0.9 m

Cable cross section



Technical data

Mounting type	Rear mount
Panel seal	O-ring
Mounting Thread B	M18 × 0.75
Locknut	Brass, CuZn, Chrome-plated
Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class (When coupled)	IP67

Cable data

Cable ID	RF51001
Total number of conductors	12
Cable diameter	Ø 7.62 mm
Length (L)	0.9 m, (+50mm or 4% of length/-0.0, Whichever is greater)
Cable jacket	TPU, Black
Shield	Aluminum/polyester (IN)
Cable drain	24 AWG, TC (Tinned Copper)
Conductor diameter	0.054 "
Conductor material	TC (tinned copper)
Conductor insulation material	PVC
Conductor size	12 x 22 AWG [Similar to 0.34 mm²]
Number of strands x O.D.	19 x 0.0058 "
Conductor colors	TN, VT, GY, RD, PK, YL, GN, WH, BU, BN, OG, BK

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)	≥ 15 x Ø
UL cold bend rating	-40 °C
Ambient temperature range (static)	-40 °C...+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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Contact assignment

I/O Connector



Homerun connector



Technical data

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.

- 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	5	Labels

Accessories

Ident-No.	Part Number	Description
U0915-15	BKM 14-836-5	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
U0136-00	PSG 4M-2	Cordset, male, M8 x 1, 4-pin, straight, 2m * (I/O port)
U99-11408	PSW 4M-2	Cordset, male, M8 x 1, 4-pin, right-angle, 2m * (I/O port)
U6427	PSGM-CC (8/BAG)	Dust cap, male, M8 x 1, Plastic, (8/BAG)
A900154	TORQUE-WRENCH-SET-M12&M8-LEGACY	Torque wrench set, Torque driver, torque setting tool, M12 fitting, M8 fitting.
A900101	PICOBX ADAPTOR PLATE, 4 PORT (1PACK)	Allows new picobox to utilize the previous version mounting hole locations.

* Other lengths available on request

Circuit Diagram

