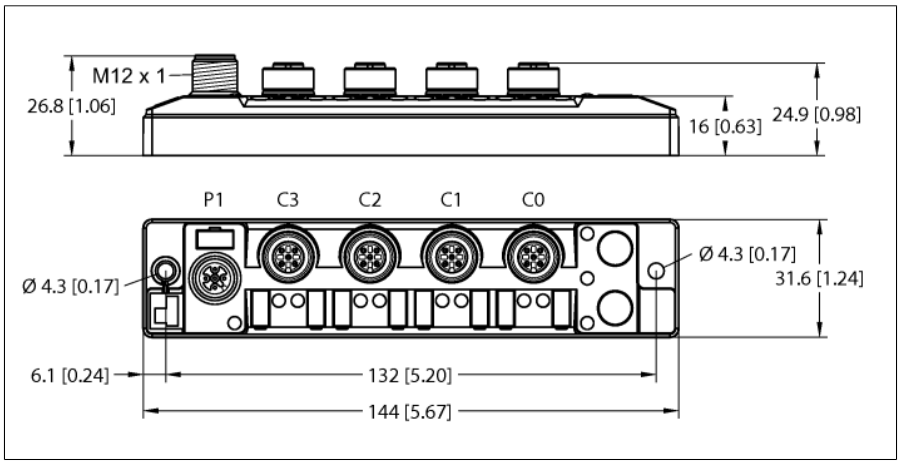
I/O Hub for Connecting Digital Signals to IO-Link Master
8 Universal Digital Channels, 4 M12 Ports
TBIL-S4-8DXP



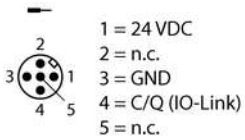
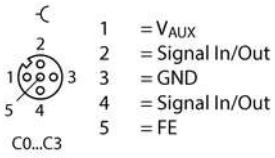
- **IO-Link V1.1 Class A**
- **I&M data sets support installation and maintenance**
- **IO-Link diagnostics for short-circuit and supply voltage**
- **Two freely selectable digital channels per port**
- **Rugged, fully potted I/O hub in IP65/ IP67/IP69K**
- **Slim design**
- **Metal connector**

Type designation	TBIL-S4-8DXP
Ident no.	100002596
Supply	
Supply voltage	24 VDC
Admissible range	18…30 VDC
Operating current	120 mA
Sensor/Actuator supply V_{AUX1}	Class A supply from V1
	Short-circuit proof, 4 A per port
Digital inputs	
Number of channels	8
Connectivity inputs	M12
Type of input diagnostics	Channel diagnostics
Low level signal voltage	-3…5 VDC (EN 61131-2, type 1 and 3)
High level signal voltage	11…30 VDC (EN 61131-2, type 1 and 3)
Input delay	0.010 ms
Sensor supply	0.5A
Max. input current	15 mA
Digital outputs	
Number of channels	8
Connectivity outputs	M12
Output type	PNP
Type of output diagnostics	Channel diagnostics
Output current per channel	0.5 A
Output delay	0.35 ms
Load type	Resistive, inductive, lamp load
Short-circuit protection	yes
Electrical isolation	500 VDC
IO-Link	
Connectivity IO-Link	1 × M12
IO-Link specification	Specified acc. to version 1.1
IO-Link port type	Class A
Frame type	2,6
Transmission rate	COM 2 / 38.4 kbps
Programming	FDT/DTM
General Information	
Dimensions (W x L x H)	32 x 144.3 x 32mm
Operating temperature	-40 °C…70 °C
Storage temperature	-40 °C…+85 °C
Protection class	IP65
	IP67
	IP69K
Housing material	PA6-GF30
Housing color	Black
Mounting	2 mounting holes, Ø 4.3 mm

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Pin configuration and wiring diagrams

	**Note** Suitable **IO-Link cables** (Excerpt): 2m: RKC4T-2-RSC4T/TXL (Ident. no. 6625604) 5 m: RKC4T-5-RSC4T/TXL (Ident. no. 6625730) Further lengths and variants in the product catalog or on request Suitable **IO-Link masters** (Excerpt): BL20-E-4IOL (ID number 6827385) BL67-4IOL (ID number 6827386) TBEN-S2-4IOL (ID number 6814024) SDPX-IOL4-0001 (ID number 6825480) Further types in the product catalog or on request	M12 × 1 IO-Link  1 = 24 VDC 2 = n.c. 3 = GND 4 = C/Q (IO-Link) 5 = n.c.
	**Note** Suitable **Sensor supply cables** (Excerpt): 2m: RSC4.4T-2/TXL Ident. no. (6625527) 5 m: RSC4.4T-5/TXL Ident. no. (6625528) Further lengths and variants in the product catalog or on request	M12 × 1 I/O port  1 = V_{AUX} 2 = Signal In/Out 3 = GND 4 = Signal In/Out 5 = FE C0...C3

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Module LED status

LED indicator	Color	Status	Description
IO-Link	Green	OFF	Power off
		Flashing	IO-Link communication OK, valid process data is being sent or received
	Red	ON	IO-Link communication or module error
		Flashing	IO-Link communication OK, invalid process data or diagnosis enabled

I/O LED Status

LED indicator	Color	Status	Description
Cx – Cx	Green	ON	Input or output active
	Red	ON	Output active with overload/short circuit
		Flashing	Power overload at the corresponding port. Both port LEDs are flashing.
		OFF	Input or output inactive

Cx = Port No.

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