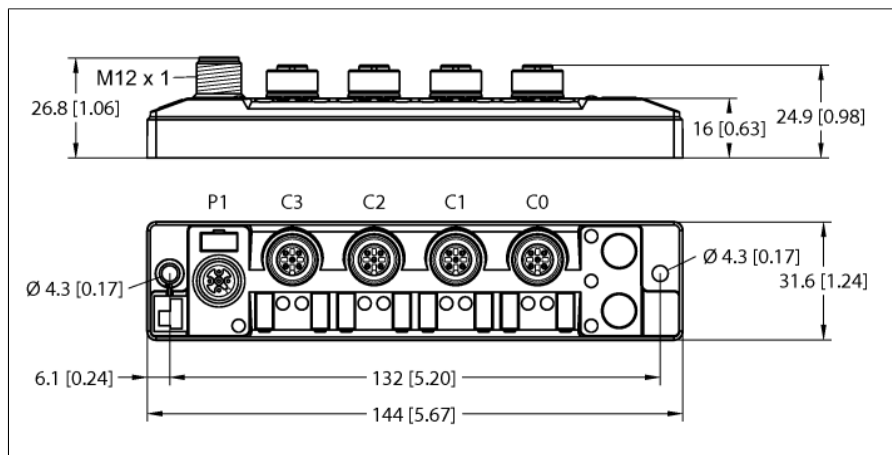


I/O Hub for connection of digital signals to IO-Link Master

8 Universal Digital Channels, 4 M12 Ports

TBIL-S4-8DXP



- Glass fiber reinforced housing
- Shock and vibration tested
- Fully potted module electronics
- Protection classes IP65, IP67, IP69K

Type	TBIL-S4-8DXP
ID	100002596

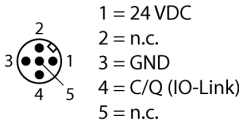
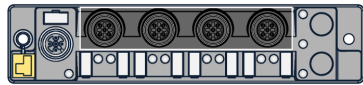
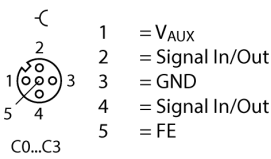
Supply	
Supply voltage	24
Admissible range	18...30 VDC
Voltage supply connection	M12
Operating current	120 mA
Sensor/actuator supply	Class A supply from V1 Short-circuit proof, 4 A per port

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	V 1.1
IO-Link port type	Class A
Frame type	2.6
Transmission rate	COM 2 / 38.4 kbps
Programming	FDT/DTM
Standard/Directive conformity	
Vibration test	Acc. to IEC 60068-2-6
Shock test	acc. to IEC 60068-2-27
Approvals and certificates	CE
	UKCA
	UV resistant acc. to DIN EN ISO 4892-2A (2013)
UL Certificate	cULus LISTED 21 W2, Encl.type 1 IND.CONT.EQ.
General Information	
Dimensions (W x L x H)	32 x 144.3 x 32 mm
Ambient temperature	-40...+70 °C
Storage temperature	-40...+85 °C
Altitude	Max. 5000 m
Protection class	IP65
	IP67
	IP69K
MTTF	422 years acc. to SN 29500 (Ed. 99) 20 °C
Housing material	PA6-GF30
Housing color	Black
Mounting	2 mounting holes □ 4.3 mm

Pinning and wiring diagram

	Accessories Suitable IO-Link cables (Example): 2 m: RK 4T-2-RS 4T (Ident. no. U2151-3) 5 m: RK 4T-5-RS 4T (Ident. no. U2158-15) Further lengths and variants in the product catalog or on request Suitable IO-Link masters (Example): BL20-E-4IOL (Ident. no. 6827385) BL67-4IOL (Ident. no. 6827386) SDPX-IOL4-0001 (Ident. no. 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.
	Accessories Suitable Sensor supply cables (Example): 2 m: RK 4.4T-2-RS 4.4T Ident. no. (U2445) 5 m: RK 4.4T-5-RS 4.4T Ident. no. (U2167-3) Further lengths and variants in the product catalog or on request Optional Accessories Closure cap VZ3 M12 Ident. no. (01202601) Labels KS9/20 Ident. no. (10267953)	M12 × 1 I/O port  1 = V_{AUX} 2 = Signal In/Out 3 = GND 4 = Signal In/Out 5 = FE C0...C3

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
		OFF	Input or output inactive
	Red	ON	Output active with overload/short circuit
		Flashing	Power overload at the corresponding port. Both port LEDs are flashing.

Cx = Port No.