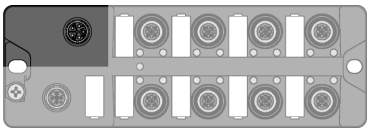


IO-Link	
Connectivity IO-Link	1 × M12
IO-Link specification	V 1.1
IO-Link port type	Class A
Frame type	2.6
Transmission rate	COM 2 / 38.4 kbps
Programming	FDT/DTM

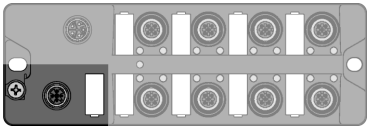
Approvals and certificates	CE
	UKCA
	UV resistant acc. to DIN EN ISO 4892-2A (2013)
UL Certificate	cULus LISTED 21 W2, Encl.type 1 IND.CONT.EQ.

General Information	
Dimensions (W x L x H)	60.1 x 179.1 x 29.5 mm
Ambient temperature	-40...+70 °C
Storage temperature	-40...+85 °C
Altitude	Max. 5000 m
Protection class	IP65
	IP67
	IP69K
MTTF	164 years acc. to SN 29500 (Ed. 99) 20 °C
Housing material	PA6-GF30
Housing color	Black
Mounting	2 mounting holes, Ø 6.5 mm



M12 L-Code Aux Power

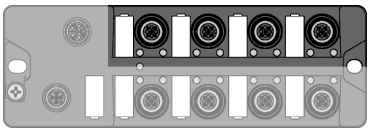
1 = 24VDC (V1)
2 = GND (V2)
3 = GND (V1)
4 = 24VDC (V2)
5 = FE



Accessories
Screw next to mounting hole: FE functional ground

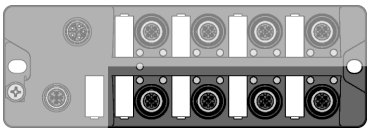
M12 IO-Link

1 = 24 VDC (V_{IOL})
2 = n.c.
3 = GND (V_{IOL})
4 = C/Q (IO-LINK)
5 = n.c.



I/O Port M12 x 1

1 = VAUX1 (V1)
2 = In/Out (odd)
3 = GND (V1)
4 = In/Out (even)
5 = FE



I/O Port M12 x 1

1 = VAUX2 (V2)
2 = In/Out (odd)
3 = GND (V2)
4 = In/Out (even)
5 = FE

Module LED status

LED	Color	Status	Description
IO-Link	Green	OFF	Power off
		Flashing	IO-Link communication OK, valid process data is sent or received
	Red	ON	IO-Link communication or module error
		Flashing	IO-Link communication OK, Invalid process data or diagnosis enabled, V1 or V2 undervoltage

I/O LED Status

LED	Color	Status	Description
X0 ... X7	Green	ON	Input or output active
0 ... 15	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

X...= connector number, 0...15 = Signal LED (Even = signal pin 4, Odd = signal pin 2)

Process Data

INPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Inputs	0	DI7 C3P2 (B)	DI6 C3P4 (A)	DI5 C2P2 (B)	DI4 C2P4 (A)	DI3 C1P2 (B)	DI2 C1P4 (A)	DI1 C0P2 (B)	DI0 C0P4 (A)
	1	DI15 C7P2 (B)	DI14 C7P4 (A)	DI13 C6P2 (B)	DI12 C6P4 (A)	DI11 C5P2 (B)	DI10 C5P4 (A)	DI9 C4P2 (B)	DI8 C4P4 (A)
Diagnostics	2		Hardware Error						
	3	V2 Aux high	V1 Aux high	V2 high	V1 high	V2 Aux low	V1 Aux low	V2 low	V1 low
	4	Vsens OC C7P1	Vsens OC C6P1	Vsens OC C5P1	Vsens OC C4P1	Vsens OC C3P1	Vsens OC C2P1	Vsens OC C1P1	Vsens OC C0P1
	5	DO7 SC	DO6 SC	DO5 SC	DO4 SC	DO3 SC	DO2 SC	DO1 SC	DO0 SC
	6	DO15 SC	DO14 SC	DO13 SC	DO12 SC	DO11 SC	DO10 SC	DO9 SC	DO8 SC
OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Outputs	0	DO7 C3P2 (B)	DO6 C3P4 (A)	DO5 C2P2 (B)	DO4 C2P4 (A)	DO3 C1P2 (B)	DO2 C1P4 (A)	DO1 C0P2 (B)	DO0 C0P4 (A)
	1	DO15 C7P2 (B)	DO14 C7P4 (A)	DO13 C6P2 (B)	DO12 C6P4 (A)	DO11 C5P2 (B)	DO10 C5P4 (A)	DO9 C4P2 (B)	DO8 C4P4 (A)