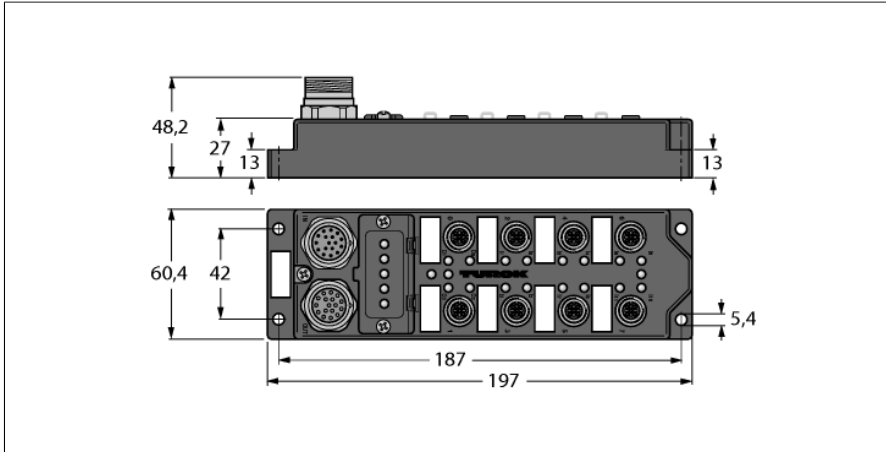


Compact fieldbus stations for INTERBUS

12 digital pnp inputs

4 digital outputs 2 A

FLIB-IOM124-0002 (A2)



- For robot applications
- Robust electromechanics
- High magnetic field immunity
- Intelligent terminating resistor
- Module-related diagnostics
- Fibre-glass reinforced housing
- Vibration and shock-resistant
- Encapsulated module electronics
- Metal connector
- Degree of protection IP67

İşlevsel prensip

The FLIB-IOM124-0001 is a compact fieldbus I/O module for INTERBUS and especially designed for robotic systems resp. automatic tool changers. The module is available in degree of protection IP67 and features 12 digital pnp inputs and 4 digital 2A outputs.

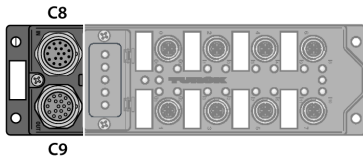
INTERBUS and power supply are jointly connected via a multibus cable with M23 connection technology which was especially developed for robotic applications.

Due to the target application, the module also features an intelligent terminating resistor. The terminating resistor is automatically connected if the roboter module is the last slave at the INTERBUS branch. Once a further INTERBUS slave is added, the terminating resistor is automatically disconnected. Automatic connection of the internal terminating resistor is carried out, provided pin 15 and 16 of the M23 coupling (OUT) are not short-circuited.

Peripheral errors are signalled until they are acknowledged by the INTERBUS master.

Tip	FLIB-IOM124-0002(A2)
Tanıt. no.	6825366
Kanal sayısı	16
Operating current	< 200 mA
Girişler	
Number of channels	(12) 2/3-wire pnp sensors
Input voltage	18...30 VDC from operating voltage UB
Supply current	120 mA per port, short-circuit proof
Switching threshold	2 mA / 4 mA
Giriş gecikmesi	2.5 ms
Anahtarlama frekansı	≤ 250 Hz
Maks. giriş akımı	7 mA
Çıkışlar	
Number of channels	(4) DC actuators
Çıkış voltajı	Yük geriliminden 18...30 VDC
Kanal başına çıkış akımı	2.0 A, short-circuit proof
Yük tipi	resistive, inductive, lamp load
Anahtarlama frekansı	≤ 250 Hz
Eşzamanlılık faktörü	1
Fieldbus iletim hızı	500 kbps
Fieldbus adresleme	physical sequence of the slaves
Electrical isolation	to operating and load voltage

Boyutlar (W x L x H)	60 x 197 x 40 mm
Housing material	fibre-glass reinforced Polyamide (PA6-GF30)
Halojensiz	evet
Montaj	4 mounting holes Ø 5,4 mm
Ortam sıcaklığı	0...+55 °C
Saklama sıcaklığı	-25...+70 °C
Titreşim testi	DIN EN 60068-2-6/-2-27 uyarınca
Darbe testi	acc. to DIN EN 60068-2-6/-2-27
Elektromanyetik uyumluluk	EN 61000-6-2/EN 61000-6-4 uyarınca
IP Derecesi	IP67



Note

Çoklu veri yolu robotu kablosu (örnek):
Robot kablolar yalnızca Ernst & Engbring GmbH & Co. KG tarafından satılmaktadır.

Kablo montaj M23 konektörü:

Dişi konektör

6604066 FW-M23KU17O-W-CP-ME-SH-14.5

Erkek konektör:

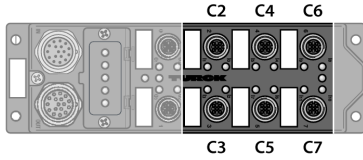
6604067 FW-M23ST17Q-G-CP-ME-SH-14.5

M23 x 1 Fieldbus

17-pole round connector

IN	OUT
1	1 0 V (GND)
2	2 0 V (GND)
3	3 24 VDC (UL)
4	4 24 VDC (UB)
5	5 PE
6	6
7	7 DO
8	8 /DO
9	9 DI
10	10 /DI
11	11 COM
12	12
13	13
14	14
15	15 reserved
16	16 reserved
17	17

— C8 - C9



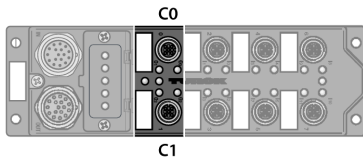
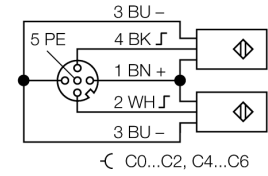
Note

Sensor/actuator cable (example):

WAK4.5-5-WAS4.5/S57

Ident-No. 8016989

Giriş M12 x 1



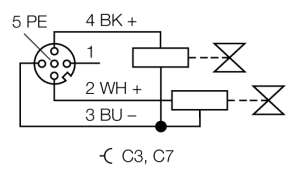
Note

Sensor/actuator cable (example):

WAK4.5-5-WAS4.5/S57

Ident-No. 8016989

Çıkış M12 x 1



LED status module

LED	Color	Status	Description
Bus Active	green	on	Exchange of user data via master
Remote Check	green	on	Communication via master not possible
Remote Disable	red	on	Bus interface switched off
US1	green	on	Within the defined tolerances
	red	on	Invalid range
		off	Below the defined tolerances
US2	green	on	Within the defined tolerances
		flashing	Invalid range
		off	Below the defined tolerances

LED status IOs

LED	Color	Status	Description
Inputs	yellow	off	Input undamped (low)
		on	Input damped (high)
	red	on	Short-circuit resp. overload US1
Outputs	yellow	off	Output undamped (low)
		on	Output damped (high)
	red	off	Short-circuit resp. overload US2

I/O data display

INTERBUS	Word	0																	
	Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
	Byte	0								1									
	Bit	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0		
Inputs	Con	5			4			3			2			7				6	
	Ch	7	6	5	4	3	2	1	0					11	10	9	8		
Outputs	Con					1		0											
	Ch					3	2	1	0										

Con - male connector

Ch - port