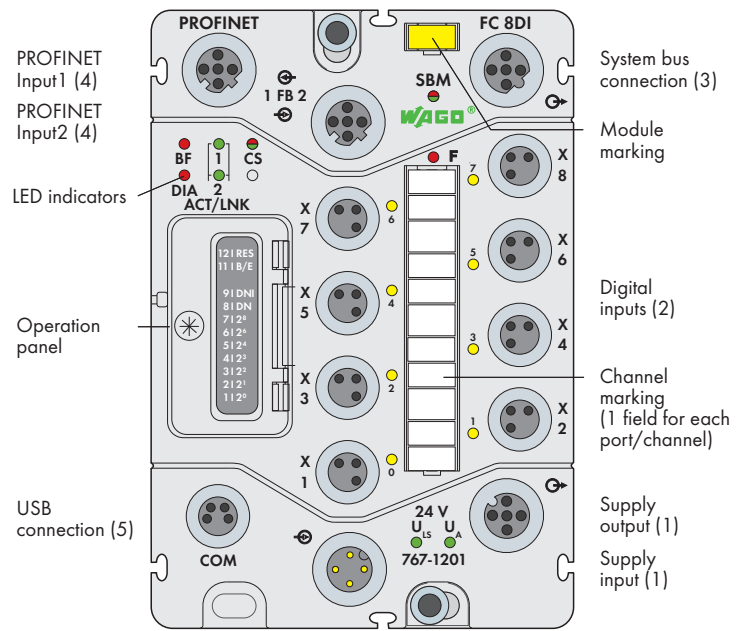


PROFINET IO Fieldbus Coupler

incl. 8 digital inputs (8 x M8)



Short description:

PROFINET IO is the ETHERNET-based, manufacturer-independent and open fieldbus standard from PROFIBUS & PROFINET International (PI). This standard offers solutions for manufacturing/process automation and safety applications in addition to covering an entire range of needs from drive technology to synchronous motion control applications.

The fieldbus coupler links the WAGO SPEEDWAY 767 I/O modules to PROFINET IO. The fieldbus coupler creates a process image of all inputs and outputs depending on the station's module structure and the configuration data transmitted by the IO controller. In addition, the coupler provides the connected I/O modules with the parametrization data provided by the device description (GSDML file) and transferred by the IO controller. The device signals existing

module and channel errors as diagnostic alarms.

Characteristics:

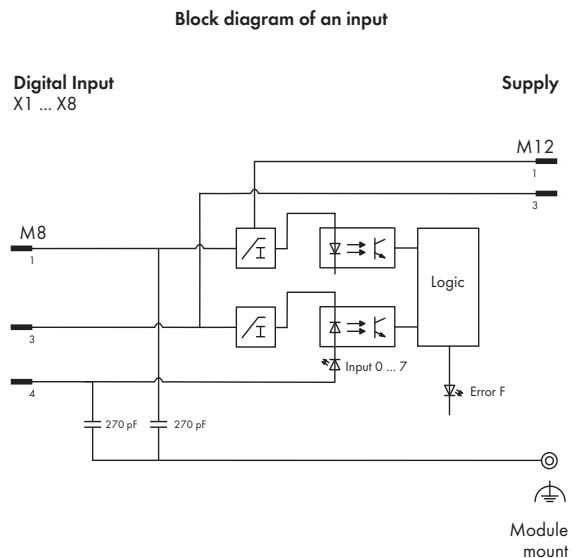
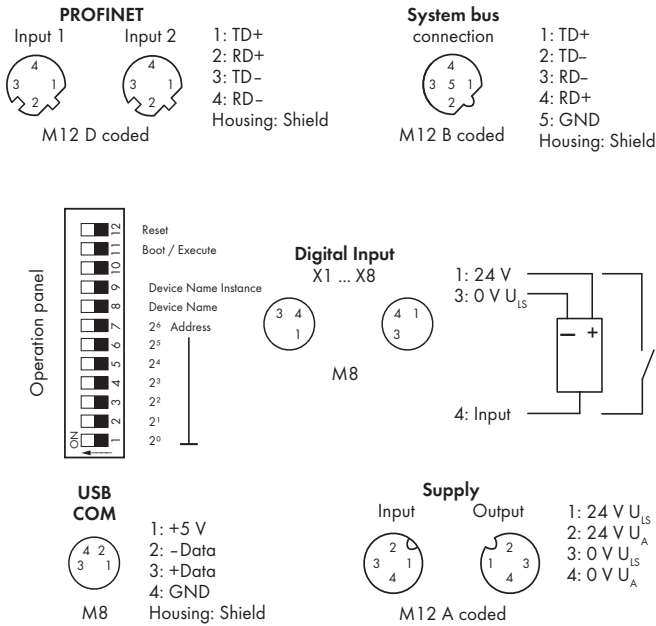
- Integrated switch
- 8 digital 24VDC inputs included
- Modular and extendable up to 64 I/O modules (via system bus connection)
- USB interface for servicing purposes
- Parametrization via GSDML or FDT/ DTM (incl. diagnostics and simulation)
- Enclosed operation panel (operating mode and address switch)

Included:

- Module WMB marker card, yellow (1 pcs)
- Channel marker strips (1 pcs)
- M8 protective caps (2 pcs)

Description	Item No.	Pack. Unit
FC PROFINET IO 8DI 24V DC	767-1201	1
Accessories		
PROFINET cable + accessories	see pages 510 + 517	
System bus/power supply cable + accessories	see pages 502 ... 507 + 516	
General accessories	see pages 520 ... 521	
GSDML file	Download: www.wago.com	
DTM (Device Type Manager)	Download: www.wago.com	

Technical Data	
Fieldbus:	
Device type	PROFINET IO device
Connection type (4)	M12 connectors, D coded, 5 poles
Baud rate	100 Mbit/s, full duplex
Transmission medium	100Base-TX, twisted pair copper cables
Station name	Adjustable via operation panel or DCP
Protocols	PROFINET IO, DCP, ILLDP, SNMP
Additional data	see PROFINET specification
Module supply:	
Connection type (1)	M12 connectors, A coded, 4 poles; Derating must be observed
Current carrying capacity of supply connections	Max. 8 A (U _{IS} : 4 A, U _A : 4 A)
Supply voltage	
Logic and sensor voltage U _{IS}	24 V DC (-25 % ... +30 %)
Actuator voltage U _A	24 V DC (-25 % ... +30 %); Also required for power supply transmission
Supply current	
Logic and sensor current I _{IS}	typ. 125 mA + sensors (max. 400 mA)
Actuator current I _A	5mA
Protection	Reverse voltage protection for U _{IS} + U _A ; short circuit protection for sensor supply



Technical Data	
Digital inputs:	
Number of inputs	8
Connection type (2)	M8 connectors, 3 poles
Wire connection	2- or 3-wire
Input filter	parametrizable
Input characteristic	Type 1, acc. to IEC 61131-2
Signal voltage (0)	-3 V ... +5 V DC
Signal voltage (1)	+15 V ... +30 V DC
Input wiring	high-side switching
Input voltage	24 V DC (-30 V DC < U _{IN} < +30 V DC)
Input current (typ.)	2.8 mA
Cable length, unshielded	≤ 30 m
Wrong connection of inputs	No effect
System bus:	
Number of expendable modules	64
Connection type (3)	M12 connectors, B coded, 5 poles, shielded
Isolation:	
Channel - Channel	No
U _{IS} , U _A , system bus, fieldbus	500 V DC each
Service:	
Type	USB standard 1.1
Connection type (5)	M8 connectors, 4 poles
Standards and approvals:	
PROFINET	IEC 61158
Conformity marking	CE
Korea Certification	
UL 508	
Configurable functions:	
Fieldbus coupler	see manual
Digital Inputs	
Input filter (per channel)	0.1/ 0.5/ 3 /15 /20 ms/ filter off
Inversion (per channel)	On/off
Online simulation (per channel)	Lock/unlock, simulation value: 0/1
Online simulation (per module)	Diagnostics
I/O diagnostics:	
I/O diagnostics (per module)	Short circuit/overload of sensor supply Undervoltage (U _{IS} + U _A)

Technical Data	
Process image:	
Input process image	1024 bytes
Output process image	1024 bytes
LED indicators:	
BF : PROFINET IO bus error	LED (red)
DIA : PROFINET IO diagnostics	LED (red)
ACT/LNK 1 : Network connection, fieldbus 1	LED (green)
ACT/LNK 2 : Network connection, fieldbus 2	LED (green)
CS : Fieldbus coupler status	LED (green/red)
SBM : System bus master status	LED (green/red)
F: Error status	LED (red)
0 ... 7: Input signal status	LED (yellow)
U _{IS} + U _A : Supply status	LED (green)
Indicators	Non-latching
General Specifications	
Dimensions (mm) W x H x L	75 x 35.7 x 117
Weight	377.1 g