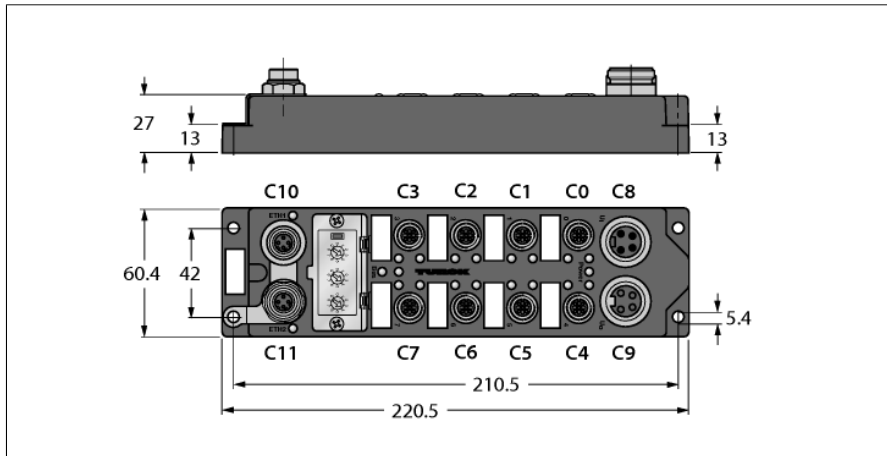


Compact multiprotocol I/O module for Ethernet

8 digital PNP inputs

8 digital outputs 2 A

FGEN-IOM88-4001



Type designation	FGEN-IOM88-4001
Ident-No.	6825429
Number of channels	16
Operating / load voltage	18...30 VDC
Operating current	< 200 mA
Electrical isolation	operating and load voltage galvanically separated
Voltage supply connection	2 x 7/8"
Inputs	
Number of channels	(8) 3-wire pnp sensors
Input voltage	18...30 VDC from operating voltage UB
Supply current	120 mA per port, short-circuit proof
Switching threshold	EN 61131-3
	low max.: 1.5 mA / high min.: 2 mA
Input delay	2.5 ms
Max. input current	7 mA
Electrical isolation	galvanically separated against the bus and outputs
Outputs	
Number of channels	(8) DC actuators
Output voltage	18...30 VDC from load voltage
Output current per channel	2.0 A, short-circuit proof
Load type	resistive, inductive, lamp load
Simultaneity factor	0.25 for entire module
	1* 2A or 2* 1A per port
	total current max. 9 A per module
Electrical isolation	galvanically separated against bus and inputs
System data	
Transmission rate	10/100 Mbps; Full/Half Duplex; Auto Negotiation; Auto Crossing
Connection technology Ethernet	female M12 x 2, 4-pin, D-coded
Protocol detection	automatic
Web server	from FW 3.1.0.0
Service interface	Ethernet
Modbus TCP	
Addressing	Static IP, BOOTP, DHCP
Supported function codes	FC1, FC2, FC3, FC4, FC5, FC6, FC15, FC16, FC23
Number of TCP connections	8
EtherNet/IP™	
Addressing	acc. to EtherNet/IP™ specification
Quick Connect (QC)	< 150 ms
Device Level Ring (DLR)	supported
Class 3 connections (TCP)	3
Class 1 connections (CIP)	10

Compact multiprotocol I/O module for Ethernet

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PROFINET

Addressing	DCP
Conformance class	B (RT)
MinCycleTime	1 ms
Fast Start-Up (FSU)	< 150 ms
Diagnostics	acc. to PROFINET alarm handling
Topology detection	supported
Automatic addressing	supported

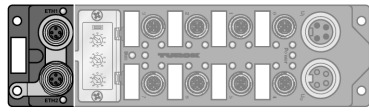
UL Certificate

pol. deg.2, env. temp. max. 40 °C, cl.2 ps req.

Dimensions (W x L x H)

Housing material	60 x 220.5 x 27mm
Halogen-free	fibre-glass reinforced Polyamide (PA6-GF30)
Mounting	yes
Operating temperature	4 mounting holes Ø 5,4 mm
Storage temperature	0...+55 °C
Altitude	-25 ...+70 °C
Vibration test	max.5000 m
Shock test	acc. to EN 60068-2-6
Electromagnetic compatibility	acc. to EN 60068-2-27
Protection class	acc. to EN 61131-2
MTTF	IP67
Approvals	197 years acc. to SN 29500 (Ed. 99) 20 °C
UL Certificate	CE, cULus
	pol. deg.2, env. temp. max. 40 °C, cl.2 ps req.

Compact multiprotocol I/O module for Ethernet
8 digital PNP inputs
8 digital outputs 2 A
FGEN-IOM88-4001



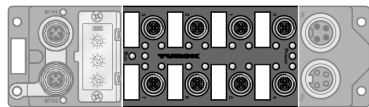
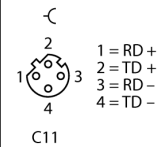
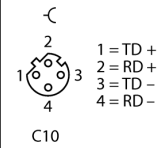
Accessories

Ethernet cable (example):

RSSD RSSD 441 2M

Ident-No. U-02482

M12 x 1 Ethernet



Accessories

Connection cable for dual channels (example):

RK 4.4T-2-RS 4.4T

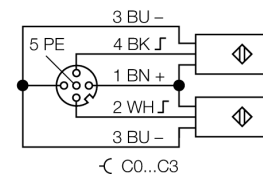
Ident-No. U2445

Splitter for single channels (example):

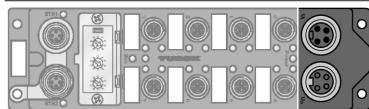
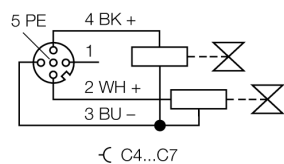
YB2-FSM 4.5-2FKM 4.5

Ident-No. U0875-78

M12 x 1 Input



M12 x 1 Output



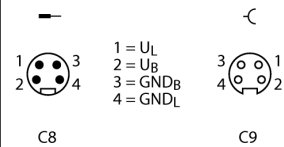
Accessories

Power supply cable (example):

RSM RKM 40-2M

Ident-No. U2280-0

7/8" Power Supply



Compact multiprotocol I/O module for Ethernet

8 digital PNP inputs

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FGEN-IOM88-4001

LED status module

LED	Color	Status	Description
ETH1 / ETH2	green	on	Ethernet Link (100 Mbps)
		flashing	Ethernet communication (100 Mbps)
	yellow	on	Ethernet Link (10 Mbps)
		flashing	Ethernet communication (10 Mbps)
		off	no Ethernet link
Bus	green	on	Active connection to a master
		flashing	ready
	red	on	IP address conflict or Restore Mode
		flashing	Blink/Wink command active
		off	No power supply
Power	green	on	Operating voltage U_s and load voltage U_L within the defined tolerances
	red	on	Load voltage U_L below the defined tolerances
		off	Operating voltage U_s below the defined tolerances

LED status IOs

LED	Color	Status	Description
C0.I1 ... C3.I8	green	on	Input active
	red	on	Overload of sensor supply at the corresponding connector
		off	Input inactive
C4.O9 ... C7.O16	green	on	Output active
	red	on	Output active with overload / short circuit
		off	Output inactive

