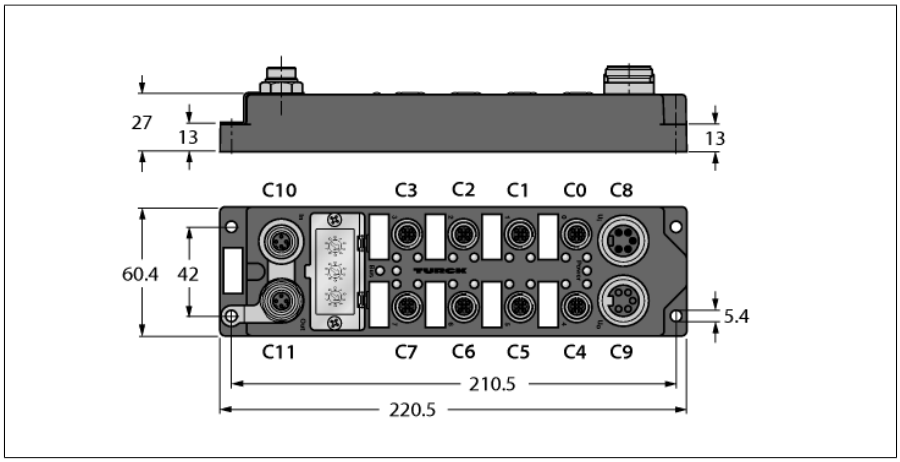
Compact fieldbus I/O modules for EtherNet/IP
8 digital PNP inputs
8 digital outputs 2 A
FGEN-IOM88-4001/CS30007



- EtherNet/IP™ supports QuickConnect (QC)
- Integrated Ethernet Switch
- CS30007: IP address 136.129.1.xxx
- Input diagnostics per port
- Output diagnostics per channel
- Two inputs or outputs per port
- 7/8", 4-pin, for power supply
- Power supply, galvanically separated
- Fibre-glass reinforced PA6 housing
- Vibration and shock-resistant
- Encapsulated module electronics
- Metal connectors
- Degree of protection IP67

Type	FGEN-IOM88-4001/CS30007
ID	6825443

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 × 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

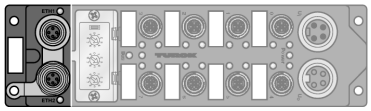
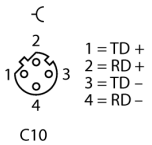
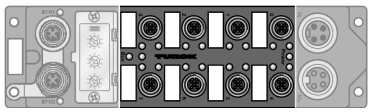
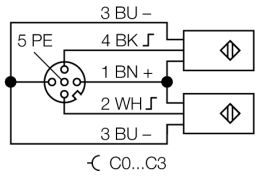
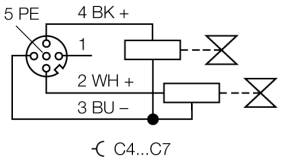
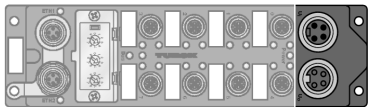
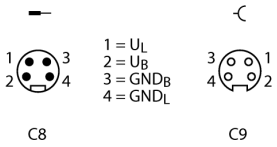
System data	
Transmission rate Ethernet	10/100 Mbps
Addressing modes Ethernet:	Static IP, BOOTP, DHCP, PGM, PGM-DHCP
Connection technology Ethernet	2 × M12 × 1 female connector, 4-pin, D-coded
Service interface	Ethernet

Edition • 2025-02-28T15:07:00+01:00

Ethernet/IP	
Quick Connect (QC)	< 100 ms
Device Level Ring (DLR)	supported
Class 1 connections (CIP)	6

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

Edition • 2025-02-28T15:07:00+01:00

	**Accessories** Ethernet cable (example): RSSD-RSSD-441-2M/S2174 Ident no. 6914218	M12 x 1 Ethernet 
	**Accessories** Connection cable , 2-channel (example): RK 4.4T-2-RS 4.4T Ident no. U2445 Splitter (example): VBRS 4.4-2RK 4T-*/* Ident-No. U0117	M12 x 1 Input  M12 x 1 Output 
	**Accessories** Power supply cable (example): RKM43-1-RSM43 Ident no. 6914312	7/8" Power Supply 

Edition • 2025-02-28T15:07:00+01:00

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	DHCP / BootP waiting for assignment of IP address
		off	No power supply
Power	green	on	Operating voltage U_B and load voltage U_L within the defined tolerances
	red	on	Load voltage U_L below the defined tolerances
		off	Operating voltage U_B 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

Edition • 2025-02-28T15:07:00+01:00

Process data mapping of single protocols

EtherNet/IP™ Data Mapping

	Word	Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input (Station -> Scanner)																	
GW Status	1	-	-	-	-	-	-	UB	-	UL	-	-	-	-	-	-	Diag Warn
Input	2	-	-	-	-	-	-	-	-	DI7 C3P2	DI6 C3P4	DI5 C2P2	DI4 C2P4	DI3 C1P2	DI2 C1P4	DI1 C0P2	DI0 C0P4
Diag	3	-	-	Sched Diag	-	-	-	-	-	-	-	-	-	-	-	-	I/O Diag
Diag	4	SCO7	SCO6	SCO5	SCO4	SCO3	SCO2	SCO1	SCO0	-	-	-	-	SCS3	SCS2	SCS1	SCS0
Output (Scanner -> Station)																	
Control	1	reserved															
Outputs	2	-	-	-	-	-	-	-	-	DO7 C7P2	DO6 C7P4	DO5 C6P2	DO4 C6P4	DO3 C5P2	DO2 C5P4	DO1 C4P2	DO0 C4P4

Legend:

DI	Digital input	-	
DO	Digital output	-	
Cx	female	-	
Px	Pin	I/ODiag	I/O diagnostics available
DiagWarn	Diagnostic at least on 1 channel	SchedDiag	Manufacturer-specific diagnostics configured and active
UL	Undervoltage UL	SCSx	Short-circuit on sensor supply at female x
UB	Undervoltage UB	SCOx	Short-circuit output x

Edition • 2025-02-28T15:07:00+01:00