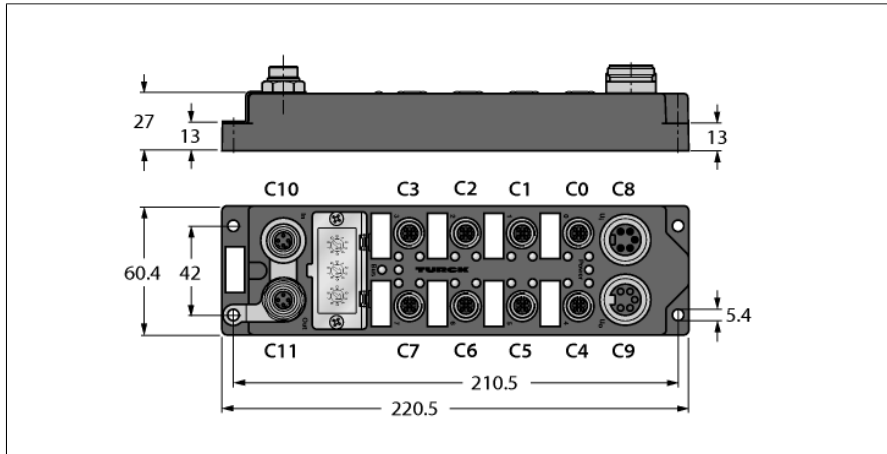


Compact fieldbus I/O modules for EtherNet/IP

16 digital pnp inputs

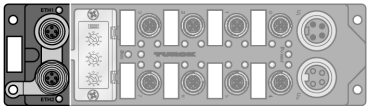
FGEN-IM16-4001/CS30007



- Ethernet/IP supports QuickConnect (QC)
- Integrated Ethernet switch
- CS30007: IP address 136.129.1.xxx
- Input diagnostics per port
- Two inputs 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

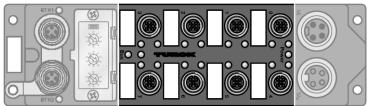
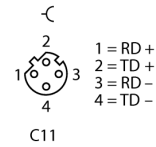
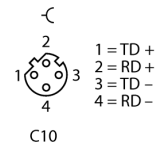
Type	FGEN-IM16-4001/CS30007
ID	6825442
Number of channels	16
Operating / load voltage	18...30 VDC
Operating current	< 200 mA
Electrical isolation	operating and load voltage galvanically separated
Voltage supply connection	2 × 7/8"
Inputs	
Number of channels	(16) 3-wire pnp sensors
Input voltage	18...30 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
Simultaneity factor	0.25 for entire module 1* 2A or 2* 1A per port total current max. 9 A per module
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
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.



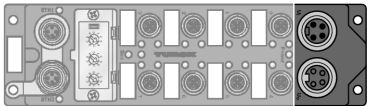
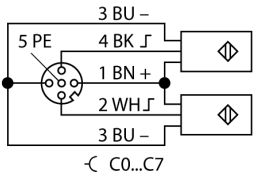
Accessories
Ethernet cable (example):
RSSD RSSD 441-2M
Ident-No. U-02482

M12 x 1 Ethernet



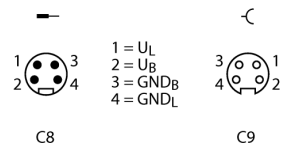
Accessories
Connection cable for dual channels (example):
RK 4.4T-2-RS 4.4T
Ident-No. U2445
Splitter (example): VBRS 4.4-2RK 4T-*/*
Ident-No. U0117

M12 x 1 Input



Accessories
Power supply cable (example):
RSM RKM 40-2M
Ident-No. U2280-0

7/8" Power Supply



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_s within the defined tolerances
		off	Operating voltage U_s below the defined tolerances

LED status IOs

LED	Color	Status	Description
C0.I1 ... C7.I16	green	on	Input active
		on	Overload of sensor supply at the corresponding connector
	red	off	Input inactive

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 data (station -> scanner)																	
GW status	1	-	-	-	-	-	-	UB	-	-	-	-	-	-	-	-	Diag Warn
Inputs	2 pieces	DI15 C7P2	DI14 C7P4	DI13 C6P2	DI12 C6P4	DI11 C5P2	DI10 C5P4	DI9 C4P2	DI8 C4P4	DI7 C3P2	DI6 C3P4	DI5 C2P2	DI4 C2P4	DI3 C1P2	DI2 C1P4	DI1 C0P2	DI0 C0P4
Diag.	3	-															I/O Diag
Output (Scanner -> Station)																	
Control	1	reserved															

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