

PROio IO-Link Masters and Hubs

Variants: IO-Link Master, IO-Link Hub, Slave

Supported applications: PROFINET | EtherNet/IP | EtherCAT



Power supply: M12 L-coded, including daisy chain

IO-Link: Class A ports; Class B ports on request

HIGHLIGHTS

IO-Link:



- Standardised interface & flexibility
- Diagnostics & maintenance



Cost savings:

- Reduced installation and configuration time
- Reduced need for cabling and devices

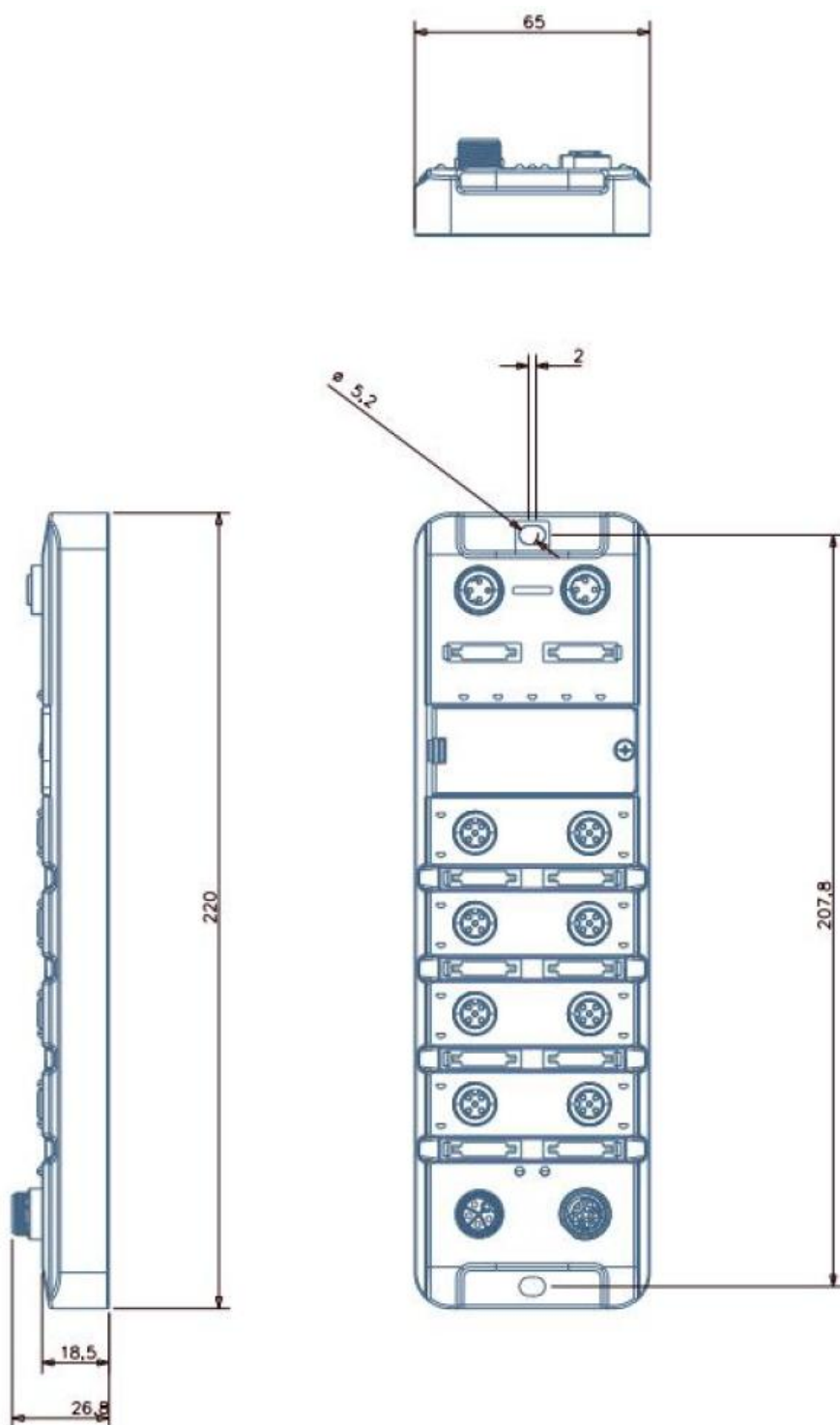
PROio IO-Link Master 8IOL | Technical Details

Articel	PROio IO-Link Master PROFINET 8IOL	PROio IO-Link Master EtherNet/IP 8IOL	PROio IO-Link Master EtherCAT 8IOL
Article number	114130000	114130001	114130002
Interfaces			
Network interfaces			
Connections	2 (Description X1P1 and X1P2)		
Connection type	M12 D-coded		
Data transfer rates	10 Mbit/s 100 Mbit/s		
Status LED	Link + Data exchange (Description L/P1 and L/P2)		
I/O interfaces			
Type	IO-Link Class A / DIO		
Connections	8 (Description X3-0 – X3-7)		
Connection type	M12 A-coded		
Pin out	1: 24 V DC 2: DI B 3: GND 4: IO-Link / DIO A 5: Not assigned		
Data rates (IO-Link)	COM1, COM2, COM3 (4.8 kbps\38.4 kbps\230.4 kbps)		
IO-Link version	V1.1.3		
Digital input	up to 16×PNP, Type 3		
Digital output	up to 8×PNP		
Configurable as input/output	YES		
Max. output current (port)	2 A		
Max. output current (total)	8 A		
Status LED	0 – Status Pin 4 1 – Status Pin 2		
Other device interfaces			
Power supply	M12 L-coded (Description X2 IN and X2 OUT)		
Power supply LED	X2P1 - IO power supply X2P2 - Device power supply		
Status LED	RUN - Communication normal, datatransmission normal ERR - Network not connected or warning occurred MT - Reset button pressed (1Hz Flash) / Module upgrade in progress (5Hz Flash) / Reset operation completed (ON)		
Power supply, Power consumption, Power dissipation			
Connections			
Connections	2 (designation X2 IN and X2 OUT)		
Connector type	M12 L-coded (X2 IN: plug/male; X2 OUT: socket/female)		
Pin out	1: 24 V DC (US+) 2: 0V (UA-) 3: 0V (US-) 4: 24 V DC (UA+) 5: Functional earth (FE)		
Operating parameters			
Supply voltage	24 V DC (±25%)		
Power consumption (device)	89 mA		
Max. Power consumption (US)	8 A		
Max. Power consumption (UA)	8 A		

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Articel	PROio IO-Link Master PROFINET 8IOL	PROio IO-Link Master EtherNet/IP 8IOL	PROio IO-Link Master EtherCAT 8IOL
Article number	114130000	114130001	114130002
Dimensions			
Design	compact		
Material (housing)	PA6 GF30		
Mounting	Wall mounting		
Width	65 mm		
Height	220 mm		
Depth	27 mm		
Installation distance (vertical)	0 mm		
Installation distance (horizontal)	0 mm		
Ambient conditions			
Operating temperature	-25 – 70°C		
Storage temperature	-40 – 85°C		
Protection class	IP67		
Functions			
Protocols/Services			
Application	PROFINET Conformance Class B	EtherNet/IP	EtherCAT
Standards, guidelines, approvals			
EMC			
Directive	2014/30/EU		
Electromagnetic emissions	EN 55032		
Immunity	EN 61000-6-2		
Mechanical stability			
Vibration	IEC 60068-2-6		
Shock	IEC 60068-2-27		
Free fall	IEC 60068-2-32		
Approval			
Europe	CE		
USA	UL		
Canada	CSA		
Environmental			
RoHS	2011/65/EU		
REACH	1907/2006/EC		
FCC			
Overvoltage protection	IEC 6100045, Level 3		
EFT	IEC 6100044		

PROio IO Link Master 8IOL | Technical Drawing



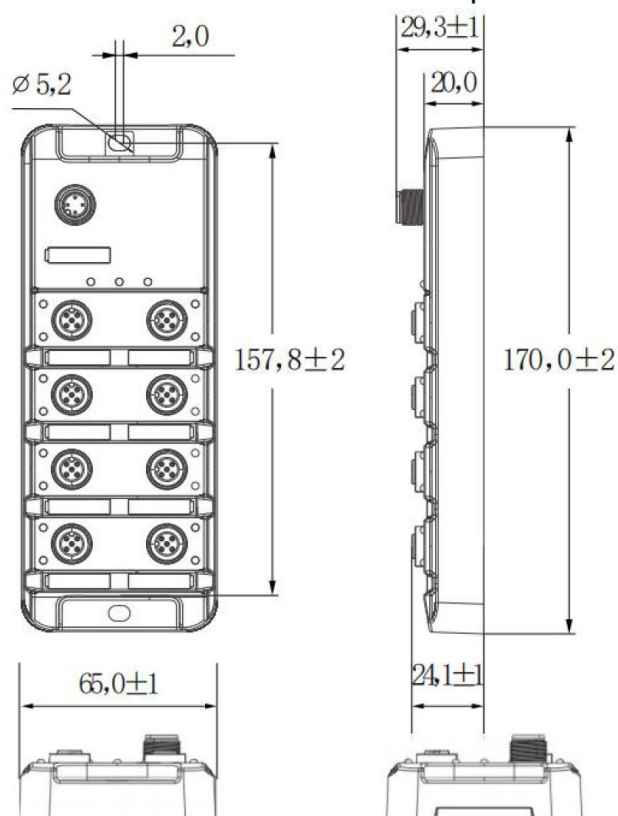
PROio IO-Link Hub 16DIO | Technical Details

Articel	PROio IO-Link Hub 16DIO-PNP		PROio IO-Link Hub 16DIO-NPN	
Article number	114130110		114130111	
Interfaces				
IO-Link interfaces				
Type	IO-Link Class A			
Connections	1			
Connection type	M12 A-coded			
Data transfer rates	COM 2 (38.4 kbps)			
IO-Link version	V1.1.3			
Pin out	1: 24 VDC 2: - 3: GND 4: IO-Link (C/Q)			
I/O interfaces				
Type	DIO			
Connections	8 (Description 1 – 8)			
Connection type	M12 A-coded			
Pin out	1: 24 VDC 2: DIO 3: GND 4: DIO 5: Functional earth (FE)			
Digital input	up to 16×PNP, Type 1		up to 16×NPN, Type 1	
Digital output	up to 16×PNP		up to 16×NPN	
Configurable as input/output	YES			
Max. output current (port)	0,5 A			
Max. output current (total)	2 A			
Status LED	0 – Status Pin 4 1 – Status Pin 2			
Other device interfaces				
Status LED	PWR - device is powered LINK - communication			
Power supply, Power consumption, Power dissipation				
Supply voltage	24 V DC (±25%)			
Power consumption	86 mA			
Dimensions				
Design	compact			
Material (housing)	PA6 GF30			
Mounting	Wall mounting			
Width	65 mm			
Height	170 mm			
Depth	29 mm			
Installation distance (vertical)	0 mm			
Installation distance (horizontal)	0 mm			
Ambient conditions				
Operating temperature	-25 – 70°C			
Storage temperature	-40 – 85°C			
Protection class	IP67			

PROio IO-Link Hub 16DIO | Technical Details

Articel	PROio IO-Link Hub 16DIO-PNP	PROio IO-Link Hub 16DIO-NPN
Article number	114130110	114130111
Standards, guidelines, approvals		
EMC		
Directive	2014/30/EU	
Electromagnetic emissions	EN 55032	
Immunity	EN 61000-6-2	
Mechanical stability		
Vibration	IEC 60068-2-6	
Shock	IEC 60068-2-27	
Free fall	IEC 60068-2-32	
Approval		
Europe	CE	
USA	UL	
Canada	CSA	
Environmental		
RoHS	2011/65/EU	
REACH	1907/2006/EC	
FCC		
Overvoltage protection	IEC 6100045, Level 3	
EFT	IEC 6100044	

PROio IO-Link Hub 16DIO | Technical Drawing



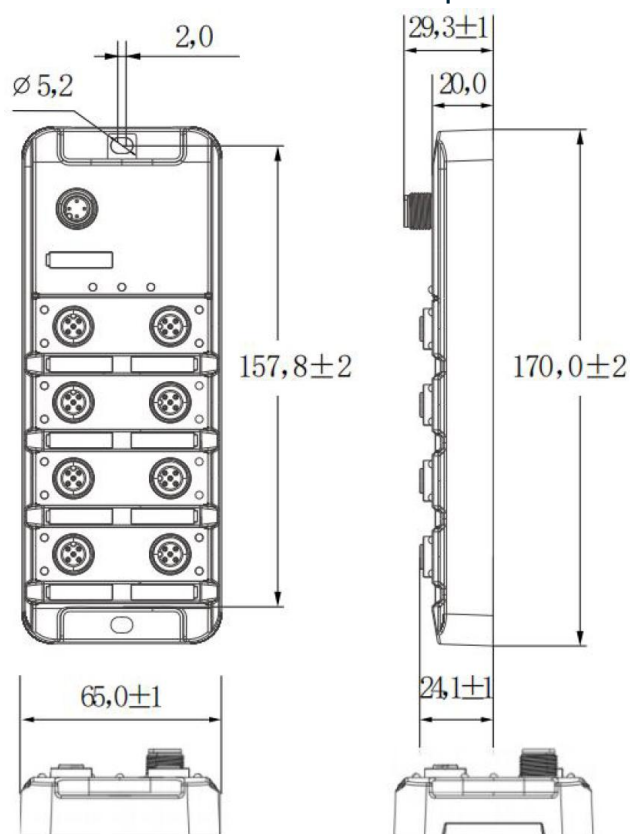
PROio IO-Link Hub 16DI | Technical Details

Articel	PROio IO-Link Hub 16DI-PNP		PROio IO-Link Hub 16DI-NPN	
Article number	114130104		114130105	
Interfaces				
IO-Link interfaces				
Type	IO-Link Class A			
Connections	1			
Connection type	M12 A-coded			
Data transfer rates	COM 2 (38.4 kbps)			
IO-Link version	V1.1.3			
Pin out	1: 24 VDC 2: - 3: GND 4: IO-Link (C/Q)			
I/O interfaces				
Type	DI			
Connections	8 (Description 1 – 8)			
Connection type	M12 A-coded			
Pin out	1: 24 VDC 2: DI 3: GND 4: DI 5: Functional earth (FE)			
Digital input	16×PNP, Type 1		16×NPN, Type 1	
Configurable as input/output	No			
Status LED	0 – Status Pin 4 1 – Status Pin 2			
Other device interfaces				
Status LED	PWR - device is powered LINK - communication			
Power supply, Power consumption, Power dissipation				
Supply voltage	24 V DC (±25%)			
Power consumption	86 mA			
Dimensions				
Design	compact			
Material (housing)	PA6 GF30			
Mounting	Wall mounting			
Width	65 mm			
Height	170 mm			
Depth	29 mm			
Installation distance (vertical)	0 mm			
Installation distance (horizontal)	0 mm			
Ambient conditions				
Operating temperature	-25 – 70°C			
Storage temperature	-40 – 85°C			
Protection class	IP67			

PROio IO-Link Hub 16DI | Technical Details

Articel	PROio IO-Link Hub 16DI-PNP	PROio IO-Link Hub 16DI-NPN
Article number	114130104	114130105
Standards, guidelines, approvals		
EMC		
Directive	2014/30/EU	
Electromagnetic emissions	EN 55032	
Immunity	EN 61000-6-2	
Mechanical stability		
Vibration	IEC 60068-2-6	
Shock	IEC 60068-2-27	
Free fall	IEC 60068-2-32	
Approval		
Europe	CE	
USA	UL	
Canada	CSA	
Environmental		
RoHS	2011/65/EU	
REACH	1907/2006/EC	
FCC		
Overvoltage protection	IEC 6100045, Level 3	
EFT	IEC 6100044	

PROio IO-Link Hub 16DI | Technical Drawing



PROio IO-Link Hub 8DIO | Technical Details

Articel	PROio IO-Link Hub 8DIO-PNP		PROio IO-Link Hub 8DIO-NPN	
Article number	114130112		114130113	
Interfaces				
IO-Link interfaces				
Type	IO-Link Class A			
Connections	1			
Connection type	M12 A-coded			
Data transfer rates	COM 2 (38.4 kbps)			
IO-Link version	V1.1.3			
Pin out	1: 24 VDC 2: - 3: GND 4: IO-Link (C/Q)			
I/O interfaces				
Type	DIO			
Connections	4 (Description 1 – 4)			
Connection type	M12 A-coded			
Pin out	1: 24 VDC 2: DIO 3: GND 4: DIO 5: Functional earth (FE)			
Digital input	up to 8×PNP, Type 1		up to 8×NPN, Type 1	
Digital output	up to 8×PNP		up to 8×NPN	
Configurable as input/output	YES			
Max. output current (port)	0,5 A			
Max. output current (total)	2 A			
Status LED	0 – Status Pin 4 1 – Status Pin 2			
Other device interfaces				
Status LED	PWR - device is powered LINK - communication			
Power supply, Power consumption, Power dissipation				
Supply voltage	24 V DC (±25%)			
Power consumption	51 mA			
Dimensions				
Design	compact			
Material (housing)	PA6 GF30			
Mounting	Wall mounting			
Width	35 mm			
Height	160 mm			
Depth	29 mm			
Installation distance (vertical)	0 mm			
Installation distance (horizontal)	0 mm			
Ambient conditions				
Operating temperature	-25 – 70°C			
Storage temperature	-40 – 85°C			
Protection class	IP67			

Article	PROio IO-Link Hub 8DIO-PNP	PROio IO-Link Hub 8DIO-NPN
Article number	114130112	114130113
Standards, guidelines, approvals		
EMC		
Directive	2014/30/EU	
Electromagnetic emissions	EN 55032	
Immunity	EN 61000-6-2	
Mechanical stability		
Vibration	IEC 60068-2-6	
Shock	IEC 60068-2-27	
Free fall	IEC 60068-2-32	
Approval		
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RoHS	2011/65/EU	
REACH	1907/2006/EC	
FCC		
Overvoltage protection	IEC 6100045, Level 3	
EFT	IEC 6100044	

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