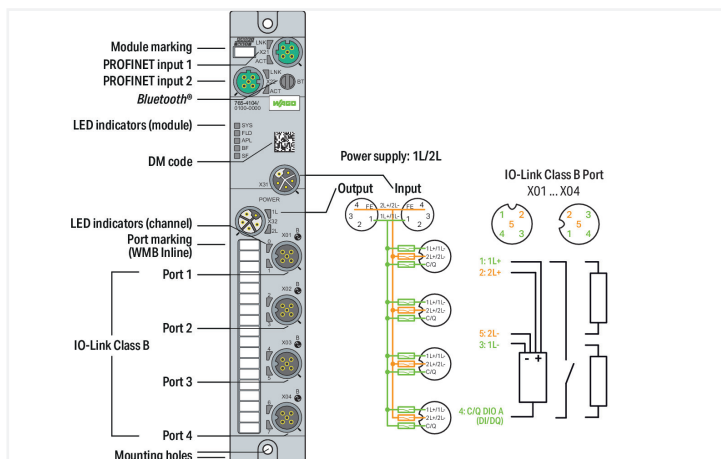


Data Sheet | Item Number: 765-4104/100-000

4-Port IO-Link Master Class B; Profinet; DC 24 V / 2.0 A; 4xM12 connection; SlimLine

<https://www.wago.com/765-4104/100-000>



Application:
Decentralized processing of digital and IO-Link signals

This device records and controls IO-Link-capable digital field device signals (e.g., from sensors, actuators and hubs) that are received or controlled by a higher-level controller. The device is designed as a Class B master and offers four IO-Link ports or four digital inputs/outputs.

IO-Link:
The device has several IO-Link communication interfaces for interoperability with IO-Link devices. The IO-Link interface enables direct access to the process and diagnostic data and allows the parameters of the connected devices to be set during operation. The IODD can also be <https://ioddfinder.io-link.com> downloaded via the IODDfinder.

Technical data

Fieldbus	
Communications	PROFINET PROFINET IO device; 2-port switch, LLDP, MRP, SNMP
Connection technology: communication/fieldbus	2 x D-coded M12; 4-pole
Interface standard	10BASE-T/100BASE-TX; potential-free
Autonegotiation; autocrossover	Yes
PROFINET IO features	PROFINET IO device; 2-port switch, LLDP, MRP, SNMP

Device functions	
Parameter	Input filter Output current Temperature
Diagnostics	Undervoltage; overcurrent; overload; overtemperature
Device functions	Bluetooth® OPC UA server
Visualization	Android/iOS app Web server

IO-Link master

IO-Link master classification	Class B; V1.1 specification
Port-Modus	IO-Link: autoconfig, manual, tool-based DI DO
Cycle time	400 µs (min.)
Operating mode	IO-Link master, DI or DO (adjustable for pin 4 per port); Supply voltage 2L (fixed for pin 2 per port)

IO-Link ports

Number of digital inputs	4
Number of digital outputs	4
Connection technology: inputs/outputs	4 x A-coded M12; 5-pole
Signal type (voltage)	24 VDC
Input characteristic	high-side switching Type 3, per IEC 61131-2
Input filter	0.2 ... 20 ms
Output current (per channel)	2 A (typ.) for DO
Supply current per port	1L (pin 1): 1 A for IO-Link; 4 A (max.) for DIO; 2L (pin 2): 4 A (max.)

Supply (module)

Connection technology: supply	2 x L-coded M12; 5-pole
Supply voltage	24 VDC (18 ... 31.2 V); 1L/2L
Current consumption (max.)	16000 mA
Current consumption (note)	per supply line; overload- and short-circuit-protected
Reverse voltage protection	Yes

Physical data

Width	35 mm / 1.378 inches
Height	30 mm / 1.181 inches
Depth	210 mm / 8.268 inches

Mechanical data

Weight	380 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +80 °C
Protection type	IP67
Protection class	III per EN 61140, IEC 61140, VDE 0140-1
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Pollution degree	3 (EN 60664-1)
Overvoltage category	II (EN 60664-1)
Relative humidity (without condensation)	95 %
Vibration resistance	5g per IEC 60068-2-6
Shock resistance	Short-term: 50g/11 ms/half-sine per IEC 60068-2-27; Long-term: 30g/6 ms/half-sine per IEC 60068-2-29
EMC immunity to interference	per EN 61000-6-2
EMC emission of interference	per EN 61000-6-4

Commercial data

ETIM 9.0	EC001601
ETIM 8.0	EC001601
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143949880
Customs tariff number	85371098990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	KC R-R-W43-FB765
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	E175199

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 765-4104/100-000 ↓




Documentation

Manual			
Product Manual 4-Port IO-Link Master Class B; Profinet	V 2.2.0 19.07.2022	pdf 8511.11 KB	↓



System Description		
WAGO I/O System Field; General Product Information	pdf 1009.23 KB	↓

Instruction Leaflet			
I/O System Field package insert	15.12.2021	pdf 1083.98 KB	↓

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 765-4104/100-000 	EPLAN Data Portal 765-4104/100-000 
	ZUKEN Portal 765-4104/100-000 

Libraries

Device Description File			
750-916; GSD files of version 2.x for PROFINET/ series 750/753, 765, 767 and 852	3.0 15.01.2023	zip 2582.40 KB	
Gerätebeschreibungsdateien 765-41xx, 765-11xx, PROFINET	V1_1_0_22	zip 27.85 KB	

1 Compatible Products

1.1 Required Accessories

1.1.1 Cover

1.1.1.1 Cover



Item No.: 756-8103
M12 protective cap; for unused plugs

Item No.: 756-8102
M12 protective cap; for unused sockets

1.1.2 Marking

1.1.2.1 Marker



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.1.2.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.3 Tool

1.1.3.1 Assembly tool



Item No.: 206-701

Torque wrench M8 and M12; Assembly kit

1.2 Optional Accessories

1.2.1 Cables and connectors

1.2.1.1 Adapter



Item No.: 756-9503/040-000

Accessories; 4-pole



Item No.: 756-9504/040-000

Accessories; 4-pole

1.2.1.2 Configurable Connector



Item No.: 756-9701/050-000

Fitted pluggable connector; 5-pole, shielded; M12 plug, straight; IDC technology



Item No.: 756-9711/050-000

Fitted pluggable connector; 5-pole, shielded; M12 socket, straight; IDC technology



Item No.: 756-9205/050-000

Fitted pluggable connector; 5-pole; M12 plug, right angle; Spring



Item No.: 756-9202/050-000

Fitted pluggable connector; 5-pole; M12 plug, straight, A-coded; Spring

1.2.1.3 Configurable Shielded Connector



Item No.: 756-9501/040-000

Accessories; M12 plug, right angle; 4-pole



Item No.: 756-9501/060-000

Fitted pluggable connector; 4-pole, shielded; M12 plug, straight, D-coded; Spring

1.2.1.4 Distribution connector



Item No.: 756-9301/050-000

Accessories; 5-pole

1.2.1.5 ETHERNET/PROFINET cable



Item No.: 756-1202/060-100

ETHERNET cable; M12D plug; angled; 4-pole; Length: 10 m



Item No.: 756-1202/060-020

ETHERNET cable; M12D plug; angled; 4-pole; Length: 2 m



Item No.: 756-1202/060-200

ETHERNET cable; M12D plug; angled; 4-pole; Length: 20 m



Item No.: 756-1202/060-050

ETHERNET cable; M12D plug; angled; 4-pole; Length: 5 m



Item No.: 756-1204/060-010

ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 1 m



Item No.: 756-1204/060-100

ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 10 m



Item No.: 756-1204/060-020

ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 2 m



Item No.: 756-1204/060-200

ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 20 m



Item No.: 756-1204/060-030

ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 3 m



Item No.: 756-1204/060-050

ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 5 m



Item No.: 756-1201/060-100

ETHERNET cable; M12D plug; straight; 4-pole; Length: 10 m



Item No.: 756-1201/060-020

ETHERNET cable; M12D plug; straight; 4-pole; Length: 2 m

1.2.1.5 ETHERNET/PROFINET cable



Item No.: 756-1201/060-200
ETHERNET cable; M12D plug; straight; 4-pole; Length: 20 m

Item No.: 756-1201/060-050
ETHERNET cable; M12D plug; straight; 4-pole; Length: 5 m

Item No.: 756-1203/060-100
ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 10 m

Item No.: 756-1203/060-020
ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 2 m



Item No.: 756-1203/060-200
ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 20 m

Item No.: 756-1203/060-050
ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 5 m

1.2.1.6 Power cable



Item No.: 756-3504/050-100
Power cable; M12L plug; angled; 5-pole; Length: 10 m

Item No.: 756-3514/050-100
Power cable; M12L plug; angled; 5-pole; Length: 10 m

Item No.: 756-3504/050-150
Power cable; M12L plug; angled; 5-pole; Length: 15 m

Item No.: 756-3514/050-150
Power cable; M12L plug; angled; 5-pole; Length: 15 m



Item No.: 756-3504/050-020
Power cable; M12L plug; angled; 5-pole; Length: 2 m

Item No.: 756-3504/050-050
Power cable; M12L plug; angled; 5-pole; Length: 5 m

Item No.: 756-3514/050-050
Power cable; M12L plug; angled; 5-pole; Length: 5 m

Item No.: 756-3504/050-075
Power cable; M12L plug; angled; 5-pole; Length: 7.5 m



Item No.: 756-3514/050-075
Power cable; M12L plug; angled; 5-pole; Length: 7.5 m

Item No.: 756-3503/050-100
Power cable; M12L plug; straight; 5-pole; Length: 10 m

Item No.: 756-3513/050-100
Power cable; M12L plug; straight; 5-pole; Length: 10 m

Item No.: 756-3503/050-150
Power cable; M12L plug; straight; 5-pole; Length: 15 m



Item No.: 756-3513/050-150
Power cable; M12L plug; straight; 5-pole; Length: 15 m

Item No.: 756-3503/050-020
Power cable; M12L plug; straight; 5-pole; Length: 2 m

Item No.: 756-3513/050-020
Power cable; M12L plug; straight; 5-pole; Length: 2 m

Item No.: 756-3503/050-050
Power cable; M12L plug; straight; 5-pole; Length: 5 m



Item No.: 756-3513/050-050
Power cable; M12L plug; straight; 5-pole; Length: 5 m

Item No.: 756-3503/050-075
Power cable; M12L plug; straight; 5-pole; Length: 7.5 m

Item No.: 756-3513/050-075
Power cable; M12L plug; straight; 5-pole; Length: 7.5 m

Item No.: 756-3502/050-100
Power cable; M12L socket; angled; 5-pole; Length: 10 m



Item No.: 756-3512/050-100
Power cable; M12L socket; angled; 5-pole; Length: 10 m

Item No.: 756-3502/050-150
Power cable; M12L socket; angled; 5-pole; Length: 15 m

Item No.: 756-3512/050-150
Power cable; M12L socket; angled; 5-pole; Length: 15 m

Item No.: 756-3502/050-020
Power cable; M12L socket; angled; 5-pole; Length: 2 m



Item No.: 756-3512/050-020
Power cable; M12L socket; angled; 5-pole; Length: 2 m

Item No.: 756-3502/050-050
Power cable; M12L socket; angled; 5-pole; Length: 5 m

Item No.: 756-3512/050-050
Power cable; M12L socket; angled; 5-pole; Length: 5 m

Item No.: 756-3502/050-075
Power cable; M12L socket; angled; 5-pole; Length: 7.5 m



Item No.: 756-3512/050-075
Power cable; M12L socket; angled; 5-pole; Length: 7.5 m

Item No.: 756-3506/050-003
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 0.3 m

Item No.: 756-3506/050-005
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 0.5 m

Item No.: 756-3516/050-005
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 0.5 m



Item No.: 756-3506/050-010
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 1 m

Item No.: 756-3516/050-010
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 1 m

Item No.: 756-3506/050-100
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 10 m

Item No.: 756-3516/050-100
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 10 m

















Item No.: 756-3506/050-150
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 15 m

Item No.: 756-3506/050-020
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 2 m















Item No.: 756-3516/050-020
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 2 m

Item No.: 756-3516/050-200
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 20 m

1.2.1.6 Power cable

 Item No.: 756-3516/050-400 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 40 m	 Item No.: 756-3506/050-050 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 5 m	 Item No.: 756-3516/050-050 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 5 m	 Item No.: 756-3506/050-075 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 7.5 m
 Item No.: 756-3516/050-075 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 7.5 m	 Item No.: 756-3501/050-100 Power cable; M12L socket; straight; 5-pole; Length: 10 m	 Item No.: 756-3511/050-100 Power cable; M12L socket; straight; 5-pole; Length: 10 m	 Item No.: 756-3501/050-150 Power cable; M12L socket; straight; 5-pole; Length: 15 m
 Item No.: 756-3511/050-150 Power cable; M12L socket; straight; 5-pole; Length: 15 m	 Item No.: 756-3501/050-020 Power cable; M12L socket; straight; 5-pole; Length: 2 m	 Item No.: 756-3511/050-020 Power cable; M12L socket; straight; 5-pole; Length: 2 m	 Item No.: 756-3501/050-050 Power cable; M12L socket; straight; 5-pole; Length: 5 m
 Item No.: 756-3511/050-050 Power cable; M12L socket; straight; 5-pole; Length: 5 m	 Item No.: 756-3501/050-075 Power cable; M12L socket; straight; 5-pole; Length: 7.5 m	 Item No.: 756-3511/050-075 Power cable; M12L socket; straight; 5-pole; Length: 7.5 m	 Item No.: 756-3505/050-003 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.3 m
 Item No.: 756-3505/050-005 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.5 m	 Item No.: 756-3515/050-005 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.5 m	 Item No.: 756-3505/050-010 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 1 m	 Item No.: 756-3515/050-010 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 1 m
 Item No.: 756-3505/050-100 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 10 m	 Item No.: 756-3515/050-100 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 10 m	 Item No.: 756-3505/050-150 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 15 m	 Item No.: 756-3505/050-020 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 2 m
 Item No.: 756-3515/050-020 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 2 m	 Item No.: 756-3515/050-200 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 20 m	 Item No.: 756-3515/050-300 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 30 m	 Item No.: 756-3515/050-400 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 40 m
 Item No.: 756-3505/050-050 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 5 m	 Item No.: 756-3515/050-050 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 5 m	 Item No.: 756-3505/050-075 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 7.5 m	 Item No.: 756-3515/050-075 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 7.5 m

1.2.1.7 Sensor/actuator cable

 Item No.: 756-5312/050-015 Sensor/Actuator cable; M12A plug; angled; 5-pole; Length: 1.5 m	 Item No.: 756-5312/050-100 Sensor/Actuator cable; M12A plug; angled; 5-pole; Length: 10 m	 Item No.: 756-5312/050-050 Sensor/Actuator cable; M12A plug; angled; 5-pole; Length: 5 m	 Item No.: 756-5311/050-015 Sensor/Actuator cable; M12A plug; straight; 5-pole; Length: 1.5 m
 Item No.: 756-5311/050-100 Sensor/Actuator cable; M12A plug; straight; 5-pole; Length: 10 m	 Item No.: 756-5311/050-050 Sensor/Actuator cable; M12A plug; straight; 5-pole; Length: 5 m	 Item No.: 756-5404/050-010 Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 5-pole; Length: 1 m	 Item No.: 756-5404/050-020 Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 5-pole; Length: 2 m
 Item No.: 756-5403/050-010 Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 5-pole; Length: 1 m	 Item No.: 756-5403/050-020 Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 5-pole; Length: 2 m	 Item No.: 756-5402/050-010 Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 5-pole; Length: 1 m	 Item No.: 756-5402/050-020 Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 5-pole; Length: 2 m
 Item No.: 756-5401/050-010 Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 5-pole; Length: 1 m	 Item No.: 756-5401/050-020 Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 5-pole; Length: 2 m		

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: www.wago.com