



Application:
 Decentralized processing of digital signals

The device controls digital field devices (e.g., actuators) and records digital signals (e.g., sensors) that are sent or received by a higher-level controller.

The device offers 16 digital inputs.

Technical data

Fieldbus

Communications	EtherNet/IP™ BOOTP, DHCP, DLR
Connection technology: communication/ fieldbus	2 x D-coded M12; 4-pole
Interface standard	10BASE-T/100BASE-TX; potential-free
Autonegotiation; autocrossover	Yes

Device functions

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

Digital inputs/outputs

Number of digital inputs	16
Connection technology: I/O	8 x A-coded M12; 5-pole
Signal type (voltage)	24 VDC
Sensor current (per channel) max.	2 A
Input characteristic	high-side switching

Digital inputs/outputs

Input filter	0.2 ... 20 ms
Input characteristic	Type 3, per IEC 61131-2

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	60 mm / 2.362 inches
Height	30 mm / 1.181 inches
Depth	210 mm / 8.268 inches

Material data

Fire load	0 MJ
Weight	610 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
Pollution degree	3 (EN 60664-1)
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
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

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966063066
Customs tariff number	85371098990

Product Classification

UNSPSC	32151705
ETIM 9.0	EC001599
ETIM 8.0	EC001599
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals **Declarations of conformity and manufacturer's declarations**



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

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 765-1501/100-000	↓

Documentation

Manual			
Cybersecurity Manual WAGO I/O System Field	4446174731 3 en-US 2025-08-04 12:00 13.08.2025	pdf 491.44 KB	↓
Product Manual 16-Channel Digital Input; EtherNet/IP; DC 24 V	V 2.0.0 19.07.2022	pdf 7692.73 KB	↓

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

CAD/CAE-Data

CAD data	
2D/3D Models 765-1501/100-000	↓

CAE data	
EPLAN Data Portal 765-1501/100-000	↓

Runtime Software

Firmware

0765-x5xx, Ethernet/IP IO-Field	V 04 02.02.2023	zip 1546.91 KB	
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Libraries

Device Description File

750-915; EDS-Dateien for EthernetIP / Serie 750, 765 and 767	12 09.07.2021	zip 164.42 KB	
Gerätebeschreibungsdateien 765-45xx, 765-15xx, EtherNet/IP	V1_1_0_22	zip 74.02 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.: 756-9205/040-000
Fitted pluggable connector; 4-pole; M12 plug, right angle; Spring



Item No.: 756-9202/040-000
Fitted pluggable connector; 4-pole; M12 plug, straight, A-coded; Spring



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

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.: 756-9301/040-000
Accessories; 4-pole



Item No.: 756-9301/050-000
Accessories; 5-pole



Item No.: 756-5517/040-010
Sensor/Actuator cable; 2xM12 socket; angled; M12A plug; straight; 4-pole; Length: 1 m



Item No.: 756-5517/040-020
Sensor/Actuator cable; 2xM12 socket; angled; M12A plug; straight; 4-pole; Length: 2 m



Item No.: 756-5516/040-010
Sensor/Actuator cable; 2xM12 socket; straight; M12A plug; straight; 4-pole; Length: 1 m



Item No.: 756-5516/040-020
Sensor/Actuator cable; 2xM12 socket; straight; M12A plug; straight; 4-pole; Length: 2 m



Item No.: 756-5514/040-010
Sensor/Actuator cable; 2xM8 socket; angled; M12A plug; straight; 4-pole; Length: 1 m



Item No.: 756-5514/040-020
Sensor/Actuator cable; 2xM8 socket; angled; M12A plug; straight; 4-pole; Length: 2 m



Item No.: 756-5513/040-010
Sensor/Actuator cable; 2xM8 socket; straight; M12A plug; straight; 4-pole; Length: 1 m



Item No.: 756-5513/040-020
Sensor/Actuator cable; 2xM8 socket; straight; M12A plug; straight; 4-pole; Length: 2 m

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
 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

1.2.1.6 Power cable



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



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.: 756-5312/040-015
Sensor/Actuator cable; M12A plug; angled; 4-pole; Length: 1.5 m

Item No.: 756-5312/040-100
Sensor/Actuator cable; M12A plug; angled; 4-pole; Length: 10 m

Item No.: 756-5312/040-050
Sensor/Actuator cable; M12A plug; angled; 4-pole; Length: 5 m

Item No.: 756-5311/040-015
Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 1.5 m



Item No.: 756-5311/040-100
Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 10 m

Item No.: 756-5311/040-050
Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 5 m

Item No.: 756-5404/040-010
Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 4-pole; Length: 1 m

Item No.: 756-5404/040-020
Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 4-pole; Length: 2 m



Item No.: 756-5403/040-010
Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5403/040-020
Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 4-pole; Length: 2 m

Item No.: 756-5402/040-010
Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 4-pole; Length: 1 m

Item No.: 756-5402/040-020
Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 4-pole; Length: 2 m



Item No.: 756-5401/040-010
Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5401/040-020
Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 4-pole; Length: 2 m

Item No.: 756-5510/040-010
Sensor/Actuator cable; M8 socket; angled; M12A plug; angled; 4-pole; Length: 1 m

Item No.: 756-5510/040-020
Sensor/Actuator cable; M8 socket; angled; M12A plug; angled; 4-pole; Length: 2 m



Item No.: 756-5509/040-010
Sensor/Actuator cable; M8 socket; angled; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5509/040-020
Sensor/Actuator cable; M8 socket; angled; M12A plug; straight; 4-pole; Length: 2 m

Item No.: 756-5508/040-010
Sensor/Actuator cable; M8 socket; straight; M12A plug; angled; 4-pole; Length: 1 m

Item No.: 756-5508/040-020
Sensor/Actuator cable; M8 socket; straight; M12A plug; angled; 4-pole; Length: 2 m



Item No.: 756-5507/040-010
Sensor/Actuator cable; M8 socket; straight; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5507/040-020
Sensor/Actuator cable; M8 socket; straight; M12A plug; straight; 4-pole; Length: 2 m