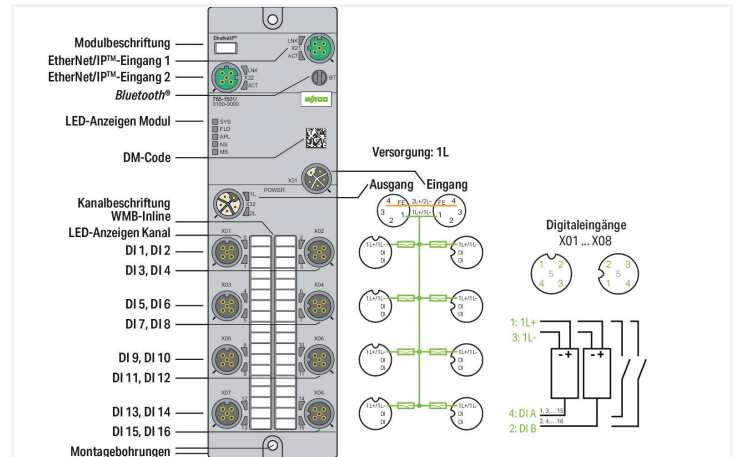


<https://www.wago.com/765-1501/100-000>



Similar to illustration



### Technical data

Fieldbus		Device functions	
Communication	EtherNet/IP™ BOOTP, DHCP, DLR	Parameter	Input filter Temperature
Connection technology: communication/ fieldbus	2 x D-coded M12; 4-pole	Diagnostics	Undervoltage; overcurrent; overload; overtemperature
Interface standard	10BASE-T/100BASE-TX; potential-free	Device functions	Bluetooth® OPC UA server
Autonegotiation; autocrossover	Yes	Visualization	Android/iOS app Web server

### Digital inputs/outputs

Number of digital inputs	16
Connection technology: inputs/outputs	8 x A-coded M12; 5-pole
Signal type (voltage)	24 VDC
Sensor current (per channel) max.	2 A
Input characteristic	high-side switching Type 3, per IEC 61131-2
Input filter	0.2 ... 20 ms

### 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

## Mechanical Data

Weight	610 g
Conformity marking	CE

## Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Surrounding air 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 (5)	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 8.0	EC001599
ETIM 7.0	EC001599
PU (SPU)	1 pcs
Country of origin	DE
GTIN	4066966063066
Customs tariff number	85371098990

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product  
Compliance  
765-1501/100-000



## Documentation

### Manual


Product Manual 16- Channel Digital Input; EtherNet/IP; DC 24 V	V 2.0.0 19.07.2022	pdf 7692.73 KB	
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### System Description


WAGO I/O System Field; General Product Infor- mation	pdf 1009.23 KB	
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## 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 01 23.07.2021	zip 40290.93 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_11	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 connectors



**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 connectors



**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

 <b>Item No.: 756-1202/060-100</b> ETHERNET cable; M12D plug; angled; 4-pole; Length: 10 m	 <b>Item No.: 756-1202/060-020</b> ETHERNET cable; M12D plug; angled; 4-pole; Length: 2 m	 <b>Item No.: 756-1202/060-200</b> ETHERNET cable; M12D plug; angled; 4-pole; Length: 20 m	 <b>Item No.: 756-1202/060-050</b> ETHERNET cable; M12D plug; angled; 4-pole; Length: 5 m
 <b>Item No.: 756-1204/060-010</b> ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 1 m	 <b>Item No.: 756-1204/060-100</b> ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 10 m	 <b>Item No.: 756-1204/060-020</b> ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 2 m	 <b>Item No.: 756-1204/060-200</b> ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 20 m
 <b>Item No.: 756-1204/060-030</b> ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 3 m	 <b>Item No.: 756-1204/060-050</b> ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 5 m	 <b>Item No.: 756-1201/060-100</b> ETHERNET cable; M12D plug; straight; 4-pole; Length: 10 m	 <b>Item No.: 756-1201/060-020</b> ETHERNET cable; M12D plug; straight; 4-pole; Length: 2 m
 <b>Item No.: 756-1201/060-200</b> ETHERNET cable; M12D plug; straight; 4-pole; Length: 20 m	 <b>Item No.: 756-1201/060-050</b> ETHERNET cable; M12D plug; straight; 4-pole; Length: 5 m	 <b>Item No.: 756-1203/060-100</b> ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 10 m	 <b>Item No.: 756-1203/060-020</b> ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 2 m
 <b>Item No.: 756-1203/060-200</b> ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 20 m	 <b>Item No.: 756-1203/060-050</b> ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 5 m		

1.2.1.6 Power cable

 <b>Item No.: 756-3504/050-100</b> Power cable; M12L plug; angled; 5-pole; Length: 10 m	 <b>Item No.: 756-3504/050-150</b> Power cable; M12L plug; angled; 5-pole; Length: 15 m	 <b>Item No.: 756-3504/050-020</b> Power cable; M12L plug; angled; 5-pole; Length: 2 m	 <b>Item No.: 756-3504/050-050</b> Power cable; M12L plug; angled; 5-pole; Length: 5 m
 <b>Item No.: 756-3504/050-075</b> Power cable; M12L plug; angled; 5-pole; Length: 7.5 m	 <b>Item No.: 756-3503/050-100</b> Power cable; M12L plug; straight; 5-pole; Length: 10 m	 <b>Item No.: 756-3503/050-150</b> Power cable; M12L plug; straight; 5-pole; Length: 15 m	 <b>Item No.: 756-3503/050-020</b> Power cable; M12L plug; straight; 5-pole; Length: 2 m
 <b>Item No.: 756-3503/050-050</b> Power cable; M12L plug; straight; 5-pole; Length: 5 m	 <b>Item No.: 756-3503/050-075</b> Power cable; M12L plug; straight; 5-pole; Length: 7.5 m	 <b>Item No.: 756-3502/050-100</b> Power cable; M12L socket; angled; 5-pole; Length: 10 m	 <b>Item No.: 756-3502/050-150</b> Power cable; M12L socket; angled; 5-pole; Length: 15 m
 <b>Item No.: 756-3502/050-020</b> Power cable; M12L socket; angled; 5-pole; Length: 2 m	 <b>Item No.: 756-3502/050-050</b> Power cable; M12L socket; angled; 5-pole; Length: 5 m	 <b>Item No.: 756-3502/050-075</b> Power cable; M12L socket; angled; 5-pole; Length: 7.5 m	 <b>Item No.: 756-3506/050-003</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 0.3 m
 <b>Item No.: 756-3506/050-005</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 0.5 m	 <b>Item No.: 756-3506/050-010</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 1 m	 <b>Item No.: 756-3506/050-100</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 10 m	 <b>Item No.: 756-3506/050-150</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 15 m
 <b>Item No.: 756-3506/050-020</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 2 m	 <b>Item No.: 756-3506/050-050</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 5 m	 <b>Item No.: 756-3506/050-075</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 7.5 m	 <b>Item No.: 756-3501/050-100</b> Power cable; M12L socket; straight; 5-pole; Length: 10 m
 <b>Item No.: 756-3501/050-150</b> Power cable; M12L socket; straight; 5-pole; Length: 15 m	 <b>Item No.: 756-3501/050-020</b> Power cable; M12L socket; straight; 5-pole; Length: 2 m	 <b>Item No.: 756-3501/050-050</b> Power cable; M12L socket; straight; 5-pole; Length: 5 m	 <b>Item No.: 756-3501/050-075</b> Power cable; M12L socket; straight; 5-pole; Length: 7.5 m

1.2.1.6 Power cable



**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.: 756-3505/050-010**

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.: 756-3505/050-150**

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.: 756-3505/050-050**

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

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; straight; 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