

Application:
 Decentralized processing of digital signals

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

The device offers eight digital inputs/outputs.

Technical data		Device functions	
Fieldbus		Device functions	
Communications	PROFINET PROFINET IO device; 2-port switch, LLDP, MRP, SNMP	Parameter	Input filter Output current 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
PROFINET IO features	PROFINET IO device; 2-port switch, LLDP, MRP, SNMP		

Digital inputs/outputs

Number of digital inputs	8
Number of digital outputs	8
Connection technology: inputs/outputs	8 x M8; 3-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/2L: 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	390 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	EC001599
ETIM 8.0	EC001599
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143949705
Customs tariff number	85371098990

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I
SCIP notification number (Austria)	fc81964e-bcd2-4fb0-8c80-389abc734aa6
SCIP notification number (Belgium)	292d81f3-f672-4e32-b971-8165fd63de3e
SCIP notification number (Bulgaria)	d0229fe5-1a4c-4edf-8d62-3e861bb4359b
SCIP notification number (Czech Republic)	56dca3ae-ac9c-492e-a5cc-0de06613f914
SCIP notification number (Denmark)	997246b1-459e-4ec7-bf6a-56081cfe27a4
SCIP notification number (Finland)	e707f48d-4e06-401b-8812-4990f23a331f
SCIP notification number (France)	98d57770-6820-4582-8901-0f6f20ca5c39
SCIP notification number (Germany)	854e0d9b-ee55-4440-8f99-bc29f43c91a9
SCIP notification number (Hungary)	fb650acb-6862-4853-a7c6-1f454e1297d9
SCIP notification number (Italy)	dd9ff4cc-127c-4353-a564-3364f513f146
SCIP notification number (Netherlands)	660457c3-5f7f-457d-bd92-22d1db1f2b10
SCIP notification number (Poland)	81687b15-dfd5-40ff-961d-8676755575e5
SCIP notification number (Romania)	3d5d0282-ef7e-4f25-86e3-4465c4b592ae
SCIP notification number (Sweden)	fbca236e-706d-40c8-9328-d64b37ca9bf5

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 765-1105/100-000

Documentation

Manual				System Description			
Product Manual 8-Channel Digital Input/Output; Profinet	V 2.2.0 19.07.2022	pdf 7426.42 KB	↓	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 765-1105/100-000	↓	EPLAN Data Portal 765-1105/100-000	↓
		ZUKEN Portal 765-1105/100-000	↓

Runtime Software

Firmware			
0765-x1xx, Profinet IO-Field	V 04 02.02.2023	zip 1595.41 KB	↓

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

[Item No.: 756-8101](#)
M8 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.: 756-9105/030-000

Fitted pluggable connector; 3-pole; M8 plug, right angle; IDC technology



Item No.: 756-9102/030-000

Fitted pluggable connector; 3-pole; M8 plug, straight; IDC technology



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 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		

1.2.1.5 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

1.2.1.5 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

1.2.1.6 Sensor/actuator cable



Item No.: 756-5504/030-010
 Sensor/Actuator cable; M12A socket; angled; M8 plug; angled; 3-pole; Length: 1 m



Item No.: 756-5504/030-020
 Sensor/Actuator cable; M12A socket; angled; M8 plug; angled; 3-pole; Length: 2 m



Item No.: 756-5503/030-010
 Sensor/Actuator cable; M12A socket; angled; M8 plug; straight; 3-pole; Length: 1 m



Item No.: 756-5503/030-020
 Sensor/Actuator cable; M12A socket; angled; M8 plug; straight; 3-pole; Length: 2 m



Item No.: 756-5502/030-010
 Sensor/Actuator cable; M12A socket; straight; M8 plug; angled; 3-pole; Length: 1 m



Item No.: 756-5502/030-020
 Sensor/Actuator cable; M12A socket; straight; M8 plug; angled; 3-pole; Length: 2 m



Item No.: 756-5501/030-010
 Sensor/Actuator cable; M12A socket; straight; M8 plug; straight; 3-pole; Length: 1 m



Item No.: 756-5501/030-020
 Sensor/Actuator cable; M12A socket; straight; M8 plug; straight; 3-pole; Length: 2 m



Item No.: 756-5112/030-015
 Sensor/Actuator cable; M8 plug; angled; 3-pole; Length: 1.5 m



Item No.: 756-5112/030-100
 Sensor/Actuator cable; M8 plug; angled; 3-pole; Length: 10 m



Item No.: 756-5112/030-050
 Sensor/Actuator cable; M8 plug; angled; 3-pole; Length: 5 m



Item No.: 756-5111/030-015
 Sensor/Actuator cable; M8 plug; straight; 3-pole; Length: 1.5 m



Item No.: 756-5111/030-100
 Sensor/Actuator cable; M8 plug; straight; 3-pole; Length: 10 m



Item No.: 756-5111/030-050
 Sensor/Actuator cable; M8 plug; straight; 3-pole; Length: 5 m



Item No.: 756-5204/030-010
 Sensor/Actuator cable; M8 socket; angled; M8 plug; angled; 3-pole; Length: 1 m



Item No.: 756-5204/030-020
 Sensor/Actuator cable; M8 socket; angled; M8 plug; angled; 3-pole; Length: 2 m



Item No.: 756-5203/030-010
 Sensor/Actuator cable; M8 socket; angled; M8 plug; straight; 3-pole; Length: 1 m



Item No.: 756-5203/030-020
 Sensor/Actuator cable; M8 socket; angled; M8 plug; straight; 3-pole; Length: 2 m



Item No.: 756-5202/030-010
 Sensor/Actuator cable; M8 socket; straight; M8 plug; angled; 3-pole; Length: 1 m



Item No.: 756-5202/030-020
 Sensor/Actuator cable; M8 socket; straight; M8 plug; angled; 3-pole; Length: 2 m



Item No.: 756-5201/030-010
 Sensor/Actuator cable; M8 socket; straight; M8 plug; straight; 3-pole; Length: 1 m



Item No.: 756-5201/030-020
 Sensor/Actuator cable; M8 socket; straight; M8 plug; straight; 3-pole; Length: 2 m