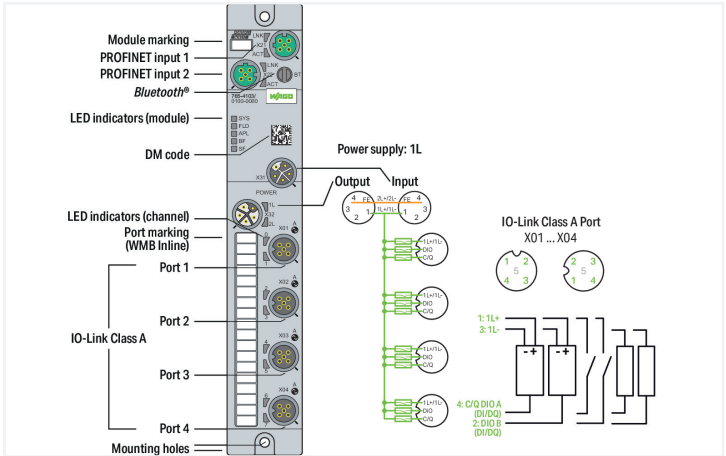




Application:
Decentralized processing of digital and IO-Link signals

The device controls IO-Link-capable digital field devices (e.g., actuators and hubs) and records digital signals from IO-Link-capable field devices (e.g., sensors and hubs) that are sent or received by a higher-level controller. The device is designed as a Class A master and offers 4 IO-Link ports or 8 digital inputs/outputs.

IO-Link:
The device has several IO-Link communication interfaces for interoperation 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		Fieldbus	
Communications	PROFINET PROFINET IO device; 2-port switch, LLDP, MRP, SNMP	PROFINET IO features	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		



Device functions	
Parameter	Input filter Output current Temperature
Diagnostics	Undervoltage; overcurrent; overload; overtemperature
Device functions	Bluetooth® OPC UA server
Radio technology	Bluetooth®: This module has an RF transmitter with the following specifications: Operating frequency: 2402 ... 2480 MHz; Maximum RF output power: <20 mW
Visualization	Android/iOS app Web server

IO-Link ports	
Number of digital inputs	8
Number of digital outputs	8
Connection technology: I/O	4 x A-coded M12; 5-pole
Signal type (voltage)	24 VDC
Input characteristic	high-side switching
Input filter	0.2 ... 20 ms
Input characteristic	Type 3, per IEC 61131-2
Output current (per channel)	2 A (typ.) for DO
Supply current per port	1L: 1 A for IO-Link; 4 A (max.) for DIO

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

Material data	
Fire load	0 MJ
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
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

IO-Link master	
IO-Link master classification	Class A; 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); DI or DO (adjustable for pin 2 per port)

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



Commercial data		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
GTIN		4055143950053
Customs tariff number		85371098990

Product Classification		
UNSPSC		32151705
ETIM 9.0		EC001601
ETIM 10.0		EC001601
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant,No Exemption
SCIP notification number (Austria)		86e87699-35bf-421b-aae9-82dfa4013485
SCIP notification number (Belgium)		db867a9a-f8d9-464d-ad64-a7a45495db04
SCIP notification number (Bulgaria)		4d9dd066-3b81-4cc7-9c00-c32ded3a83fb
SCIP notification number (Czech Republic)		04a03d94-5d26-4be8-b421-7bc9c7adb8a2
SCIP notification number (Denmark)		a87ca643-d3cf-485f-aa72-1a52aec17a37
SCIP notification number (Finland)		6ef3e993-1e42-4b23-9725-773c5f56216e
SCIP notification number (France)		cbf8b064-7389-4fb8-b8df-5cd045800397
SCIP notification number (Germany)		44226e4c-e4f7-4417-bc7f-57a58032c88e
SCIP notification number (Hungary)		0995f8de-e098-4508-b4f4-3d6b2c501a01
SCIP notification number (Italy)		f2a4bd3d-9539-49d1-afd0-cf6217f26009
SCIP notification number (Netherlands)		e8e40001-8450-40f0-be32-3d30a9fe503c
SCIP notification number (Poland)		2a59b41b-9b72-4fdc-ac41-5b7747f89246
SCIP notification number (Romania)		19b92347-ab32-4a6a-b4e1-95593e72449c
SCIP notification number (Sweden)		6151591a-75ce-4294-8411-cf77668fc4a2

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	765-4103/100-000	↓

Documentation			
Manual		System Description	
Cybersecurity Manual	4446174731 3 en-US	pdf	↓
WAGO I/O System Field	2025-08-04 12:00 13.08.2025	491.44 KB	
Product Manual 4-Port IO-Link Master Class A; Profinet	1562957579 8 en-US	pdf	↓
	2024-11-12 18:30 16.01.2025	8840.31 KB	
Instruction Leaflet			
I/O System Field package insert	V 1.4.0 25.07.2025	pdf	↓
		1083.98 KB	

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models	EPLAN Data Portal
765-4103/100-000	765-4103/100-000
↓	↓
	ZUKEN Portal
	765-4103/100-000
	↓

Libraries			
Device Description File			
Gerätebeschreibungen PROFINET	Version 3.4 15.11.2024	zip	↓
		1533.35 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.: 756-9205/040-000

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**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

1.2.1.6 Power cable

**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; M12A plug; angled; 4-pole; Length: 1 m

**Item No.: 756-5508/040-020**

Sensor/Actuator cable; 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