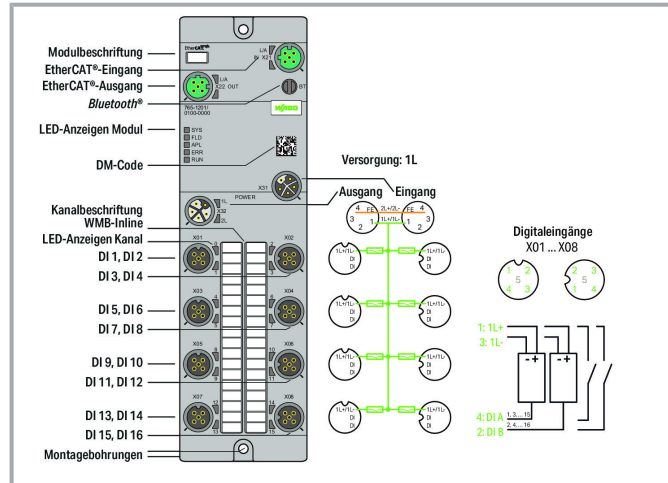




*i* Picture differs from the item.



## Data

### Technical data

### Fieldbus

Communication	EtherCAT AoE, EoE, FoE
Connection technology: communication/fieldbus	2 x D-coded M12; 4-pole
Interface standard	10BASE-T/100BASE-TX; potential-free
Autonegotiation; autocrossover	Yes

### Device Functions

Parameters	Input filter Temperature
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Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG  
 Hansastr. 27  
 32423 Minden  
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 Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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Diagnostics	Undervoltage; Overcurrent; Overload; Overtemperature
Device functions	Bluetooth® Bluetooth® OPC UA Server
Visualization	Android/iOS app Webserver

## Digital inputs/outputs

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

## Module Power Supply

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

## Geometrical Data

Width	60 mm / 2.362 inch
Height	30 mm / 1.181 inch
Depth	210 mm / 8.268 inch

## Mechanical Data

Weight	672 g
Conformity marking	CE

## Environmental Requirements

Surrounding air 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

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

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Operating altitude	0 ... 2000 m
Pollution degree (5)	3 per 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

PU (SPU)	1 Pieces
Packaging type	BOX
Country of origin	DE
GTIN	4055144010121
Customs tariff number	85371098990

### Required accessories

#### Tool

##### Assembly tool

**Item no.: 206-701**

Torque wrench M8 and M12; Assembly kit

[www.wago.com/206-701](http://www.wago.com/206-701)

#### Marking accessories

##### Marking strip



**Item no.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

[www.wago.com/2009-110](http://www.wago.com/2009-110)

##### Marker



**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-115](http://www.wago.com/2009-115)

#### Cover

##### Cover

**Item no.: 756-8102**

M12 protective cap; for unused sockets

[www.wago.com/756-8102](http://www.wago.com/756-8102)

**Item no.: 756-8103**

M12 protective cap; for unused plugs

[www.wago.com/756-8103](http://www.wago.com/756-8103)

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

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Hansastr. 27

32423 Minden

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## Optional accessories

### Cables and pluggable connectors

#### Sensor/actuator cable

<b>Item no.: 756-5402/040-010</b> Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 4-pole; Length: 1 m	<a href="http://www.wago.com/756-5402/040-010">www.wago.com/756-5402/040-010</a>
<b>Item no.: 756-5402/040-020</b> Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 4-pole; Length: 2 m	<a href="http://www.wago.com/756-5402/040-020">www.wago.com/756-5402/040-020</a>
<b>Item no.: 756-5311/040-050</b> Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 5 m	<a href="http://www.wago.com/756-5311/040-050">www.wago.com/756-5311/040-050</a>
<b>Item no.: 756-5311/040-015</b> Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 1.5 m	<a href="http://www.wago.com/756-5311/040-015">www.wago.com/756-5311/040-015</a>
<b>Item no.: 756-5311/040-100</b> Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 10 m	<a href="http://www.wago.com/756-5311/040-100">www.wago.com/756-5311/040-100</a>
<b>Item no.: 756-5404/040-020</b> Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 4-pole; Length: 2 m	<a href="http://www.wago.com/756-5404/040-020">www.wago.com/756-5404/040-020</a>
<b>Item no.: 756-5510/040-010</b> Sensor/Actuator cable; M8 socket; angled; M12A plug; angled; 4-pole; Length: 1 m	<a href="http://www.wago.com/756-5510/040-010">www.wago.com/756-5510/040-010</a>
<b>Item no.: 756-5510/040-020</b> Sensor/Actuator cable; M8 socket; angled; M12A plug; angled; 4-pole; Length: 2 m	<a href="http://www.wago.com/756-5510/040-020">www.wago.com/756-5510/040-020</a>
<b>Item no.: 756-5401/040-020</b> Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 4-pole; Length: 2 m	<a href="http://www.wago.com/756-5401/040-020">www.wago.com/756-5401/040-020</a>
<b>Item no.: 756-5401/040-010</b> Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 4-pole; Length: 1 m	<a href="http://www.wago.com/756-5401/040-010">www.wago.com/756-5401/040-010</a>
<b>Item no.: 756-5507/040-010</b> Sensor/Actuator cable; M8 socket; straight; M12A plug; straight; 4-pole; Length: 1 m	<a href="http://www.wago.com/756-5507/040-010">www.wago.com/756-5507/040-010</a>
<b>Item no.: 756-5507/040-020</b> Sensor/Actuator cable; M8 socket; straight; M12A plug; straight; 4-pole; Length: 2 m	<a href="http://www.wago.com/756-5507/040-020">www.wago.com/756-5507/040-020</a>

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

**Item no.: 756-5404/040-010**

Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 4-pole; Length: 1 m

[www.wago.com/756-5404/040-010](http://www.wago.com/756-5404/040-010)

**Item no.: 756-5312/040-015**

Sensor/Actuator cable; M12B socket; straight; 4-pole; Length: 1.5 m

[www.wago.com/756-5312/040-015](http://www.wago.com/756-5312/040-015)

**Item no.: 756-5312/040-050**

Sensor/Actuator cable; M12B socket; straight; 4-pole; Length: 5 m

[www.wago.com/756-5312/040-050](http://www.wago.com/756-5312/040-050)

**Item no.: 756-5509/040-010**

Sensor/Actuator cable; M8 socket; angled; M12A plug; straight; 4-pole; Length: 1 m

[www.wago.com/756-5509/040-010](http://www.wago.com/756-5509/040-010)

**Item no.: 756-5509/040-020**

Sensor/Actuator cable; M8 socket; angled; M12A plug; straight; 4-pole; Length: 2 m

[www.wago.com/756-5509/040-020](http://www.wago.com/756-5509/040-020)

**Item no.: 756-5403/040-010**

Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 4-pole; Length: 1 m

[www.wago.com/756-5403/040-010](http://www.wago.com/756-5403/040-010)

**Item no.: 756-5312/040-100**

Sensor/Actuator cable; M12B socket; straight; 4-pole; Length: 10 m

[www.wago.com/756-5312/040-100](http://www.wago.com/756-5312/040-100)

**Item no.: 756-5403/040-020**

Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 4-pole; Length: 2 m

[www.wago.com/756-5403/040-020](http://www.wago.com/756-5403/040-020)



**Item no.: 756-5508/040-010**

Sensor/Actuator cable; M8 socket; straight; M12A plug; angled; 4-pole; Length: 1 m

[www.wago.com/756-5508/040-010](http://www.wago.com/756-5508/040-010)



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

Sensor/Actuator cable; M8 socket; straight; M12A plug; angled; 4-pole; Length: 2 m

[www.wago.com/756-5508/040-020](http://www.wago.com/756-5508/040-020)

Configurable connectors

**Item no.: 756-9202/040-000**

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

[www.wago.com/756-9202/040-000](http://www.wago.com/756-9202/040-000)

**Item no.: 756-9205/040-000**

Fitted pluggable connector; 4-pole; M12 plug, right angle; Spring

[www.wago.com/756-9205/040-000](http://www.wago.com/756-9205/040-000)



**Item no.: 756-9711/050-000**

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

[www.wago.com/756-9711/050-000](http://www.wago.com/756-9711/050-000)

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Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

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**Item no.: 756-9701/050-000**

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

[www.wago.com/756-9701/050-000](http://www.wago.com/756-9701/050-000)

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Configurable shielded connectors

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**Item no.: 756-9501/060-000**

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

[www.wago.com/756-9501/060-000](http://www.wago.com/756-9501/060-000)

**Item no.: 756-9501/040-000**

Accessories; M12 plug, right angle; 4-pole

[www.wago.com/756-9501/040-000](http://www.wago.com/756-9501/040-000)

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Power cable

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**Item no.: 756-3501/050-075**

Power cable; M12L socket; straight; 5-pole; Length: 7.5 m

[www.wago.com/756-3501/050-075](http://www.wago.com/756-3501/050-075)



**Item no.: 756-3501/050-100**

Power cable; M12L socket; straight; 5-pole; Length: 10 m

[www.wago.com/756-3501/050-100](http://www.wago.com/756-3501/050-100)



**Item no.: 756-3501/050-150**

Power cable; M12L socket; straight; 5-pole; Length: 15 m

[www.wago.com/756-3501/050-150](http://www.wago.com/756-3501/050-150)



**Item no.: 756-3501/050-050**

Power cable; M12L socket; straight; 5-pole; Length: 5 m

[www.wago.com/756-3501/050-050](http://www.wago.com/756-3501/050-050)



**Item no.: 756-3502/050-050**

Power cable; M12L socket; angled; 5-pole; Length: 5 m

[www.wago.com/756-3502/050-050](http://www.wago.com/756-3502/050-050)



**Item no.: 756-3502/050-150**

Power cable; M12L socket; angled; 5-pole; Length: 15 m

[www.wago.com/756-3502/050-150](http://www.wago.com/756-3502/050-150)



**Item no.: 756-3502/050-075**

Power cable; M12L socket; angled; 5-pole; Length: 7.5 m

[www.wago.com/756-3502/050-075](http://www.wago.com/756-3502/050-075)

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Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

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

[www.wago.com/756-3502/050-100](http://www.wago.com/756-3502/050-100)



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

[www.wago.com/756-3503/050-075](http://www.wago.com/756-3503/050-075)



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

[www.wago.com/756-3503/050-150](http://www.wago.com/756-3503/050-150)



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

[www.wago.com/756-3503/050-100](http://www.wago.com/756-3503/050-100)



**Item no.: 756-3505/050-003**  
Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.3 m

[www.wago.com/756-3505/050-003](http://www.wago.com/756-3505/050-003)



**Item no.: 756-3505/050-005**  
Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.5 m

[www.wago.com/756-3505/050-005](http://www.wago.com/756-3505/050-005)



**Item no.: 756-3505/050-020**  
Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 2 m

[www.wago.com/756-3505/050-020](http://www.wago.com/756-3505/050-020)



**Item no.: 756-3505/050-010**  
Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 1 m

[www.wago.com/756-3505/050-010](http://www.wago.com/756-3505/050-010)



**Item no.: 756-3505/050-050**  
Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 5 m

[www.wago.com/756-3505/050-050](http://www.wago.com/756-3505/050-050)



**Item no.: 756-3505/050-075**  
Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 7.5 m

[www.wago.com/756-3505/050-075](http://www.wago.com/756-3505/050-075)



**Item no.: 756-3505/050-100**  
Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 10 m

[www.wago.com/756-3505/050-100](http://www.wago.com/756-3505/050-100)



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

[www.wago.com/756-3506/050-100](http://www.wago.com/756-3506/050-100)



**Item no.: 756-3506/050-075**  
Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 7.5 m

[www.wago.com/756-3506/050-075](http://www.wago.com/756-3506/050-075)

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Hansastr. 27













32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

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	<b>Item no.: 756-3506/050-150</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 15 m	<a href="http://www.wago.com/756-3506/050-150">www.wago.com/756-3506/050-150</a>
	<b>Item no.: 756-3501/050-020</b> Power cable; M12L socket; straight; 5-pole; Length: 2 m	<a href="http://www.wago.com/756-3501/050-020">www.wago.com/756-3501/050-020</a>
	<b>Item no.: 756-3502/050-020</b> Power cable; M12L socket; angled; 5-pole; Length: 2 m	<a href="http://www.wago.com/756-3502/050-020">www.wago.com/756-3502/050-020</a>
	<b>Item no.: 756-3503/050-020</b> Power cable; M12L plug; straight; 5-pole; Length: 2 m	<a href="http://www.wago.com/756-3503/050-020">www.wago.com/756-3503/050-020</a>
	<b>Item no.: 756-3503/050-050</b> Power cable; M12L plug; straight; 5-pole; Length: 5 m	<a href="http://www.wago.com/756-3503/050-050">www.wago.com/756-3503/050-050</a>
	<b>Item no.: 756-3504/050-020</b> Power cable; M12L plug; angled; 5-pole; Length: 2 m	<a href="http://www.wago.com/756-3504/050-020">www.wago.com/756-3504/050-020</a>
	<b>Item no.: 756-3504/050-050</b> Power cable; M12L plug; angled; 5-pole; Length: 5 m	<a href="http://www.wago.com/756-3504/050-050">www.wago.com/756-3504/050-050</a>
	<b>Item no.: 756-3504/050-075</b> Power cable; M12L plug; angled; 5-pole; Length: 7.5 m	<a href="http://www.wago.com/756-3504/050-075">www.wago.com/756-3504/050-075</a>
	<b>Item no.: 756-3504/050-100</b> Power cable; M12L plug; angled; 5-pole; Length: 10 m	<a href="http://www.wago.com/756-3504/050-100">www.wago.com/756-3504/050-100</a>
	<b>Item no.: 756-3504/050-150</b> Power cable; M12L plug; angled; 5-pole; Length: 15 m	<a href="http://www.wago.com/756-3504/050-150">www.wago.com/756-3504/050-150</a>
	<b>Item no.: 756-3505/050-150</b> Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 15 m	<a href="http://www.wago.com/756-3505/050-150">www.wago.com/756-3505/050-150</a>
	<b>Item no.: 756-3506/050-003</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 0.3 m	<a href="http://www.wago.com/756-3506/050-003">www.wago.com/756-3506/050-003</a>

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



	<b>Item no.: 756-3506/050-005</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 0.5 m	<a href="http://www.wago.com/756-3506/050-005">www.wago.com/756-3506/050-005</a>
	<b>Item no.: 756-3506/050-020</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 2 m	<a href="http://www.wago.com/756-3506/050-020">www.wago.com/756-3506/050-020</a>
	<b>Item no.: 756-3506/050-010</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 1 m	<a href="http://www.wago.com/756-3506/050-010">www.wago.com/756-3506/050-010</a>
	<b>Item no.: 756-3506/050-050</b> Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 5 m	<a href="http://www.wago.com/756-3506/050-050">www.wago.com/756-3506/050-050</a>
Distribution connector		
	<b>Item no.: 756-5513/040-010</b> Sensor/Actuator cable; 2xM8 socket; straight; M12A plug; straight; 4-pole; Length: 1 m	<a href="http://www.wago.com/756-5513/040-010">www.wago.com/756-5513/040-010</a>
	<b>Item no.: 756-5513/040-020</b> Sensor/Actuator cable; 2xM8 socket; straight; M12A plug; straight; 4-pole; Length: 2 m	<a href="http://www.wago.com/756-5513/040-020">www.wago.com/756-5513/040-020</a>
	<b>Item no.: 756-5514/040-010</b> Sensor/Actuator cable; 2xM8 socket; angled; M12A plug; straight; 4-pole; Length: 1 m	<a href="http://www.wago.com/756-5514/040-010">www.wago.com/756-5514/040-010</a>
	<b>Item no.: 756-5514/040-020</b> Sensor/Actuator cable; 2xM8 socket; angled; M12A plug; straight; 4-pole; Length: 2 m	<a href="http://www.wago.com/756-5514/040-020">www.wago.com/756-5514/040-020</a>
	<b>Item no.: 756-5516/040-010</b> Sensor/Actuator cable; 2xM12 socket; straight; M12A plug; straight; 4-pole; Length: 1 m	<a href="http://www.wago.com/756-5516/040-010">www.wago.com/756-5516/040-010</a>
	<b>Item no.: 756-5516/040-020</b> Sensor/Actuator cable; 2xM12 socket; straight; M12A plug; straight; 4-pole; Length: 2 m	<a href="http://www.wago.com/756-5516/040-020">www.wago.com/756-5516/040-020</a>
	<b>Item no.: 756-5517/040-010</b> Sensor/Actuator cable; 2xM12 socket; angled; M12A plug; straight; 4-pole; Length: 1 m	<a href="http://www.wago.com/756-5517/040-010">www.wago.com/756-5517/040-010</a>
	<b>Item no.: 756-5517/040-020</b> Sensor/Actuator cable; 2xM12 socket; angled; M12A plug; straight; 4-pole; Length: 2 m	<a href="http://www.wago.com/756-5517/040-020">www.wago.com/756-5517/040-020</a>

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

[www.wago.com/756-9301/050-000](http://www.wago.com/756-9301/050-000)

Item no.: 756-9301/040-000  
Accessories; 4-pole

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Adapter



Item no.: 756-9503/040-000  
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## Downloads

### Documentation

#### Manual

16-Channel Digital Input; EtherCAT; 24 VDC; 8xM12 Connection; WideLine	V 1.0.0 2021年6月8日	pdf 5.4 MB	Download
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#### System Description

WAGO I/O System Field; General Product Information		pdf 708.2 kB	Download
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## Runtime Software

#### Firmware

EtherCat IO-Field 765-x2xx Firmware Download WAGO_FW0765-x2xx_V01010017_IX01.zip	V 01 2021年7月23日	zip 1.6 MB	Download
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## CAD/CAE-Data

#### CAD data

2D/3D Models 765-1201/100-000		URL	Download
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## Device Files

### Device Description File

(750-909) ESI file for EtherCAT 750 Series and 765 Series	23 2021年7月9日	zip 216.9 kB	Download
Gerätebeschreibungdateien 765-42xx, 765-12xx, EtherCAT	V1_1_0_17	zip 72 B	Download

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 765-1201/100-000 16-channel digital input; EtherCAT; 24 VDC; 8xM12 connection; WideLine	URL	Download
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## Installation Notes

## Product family

**WAGO I/O System Field**  
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