

## Item description

WAGO's RS-232/SMI interface module offers a standard interface to SMI-compliant electrical drives. The interface represents a purely physical level conversion between the standard RS-232 interface and the SMI signal level. The interface module operates up to 16 SMI drives. The entire SMI range of functions can be used. The special WAGO-I/O-PRO function blocks communicate between applications and SMI drives. These function blocks support both single and group addressing, as well as status monitoring. The SMI Interface Module can be used with RS-232 onboard interfaces from 750 Series Programmable Fieldbus Controllers and with the serial 750-650/003-000 or 753-650/003-000 RS-232 Interface. The module must be supplied with an external 24 VDC power source. The 24 V power supply and RS-232 connectors are electrically isolated from the SMI connectors. There is no electrical isolation between power supply and RS-232. The module is DIN-35-rail mountable.

### Notes on SMI:

SMI stands for "Standard Motor Interface," a standard interface for electrical drives. SMI was developed to connect drives with integrated electronic circuitry for applications in shutters and sunshade systems.

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



## Data

### Electrical data

Nominal operating voltage	DC 24 V
Operating voltage range	±10 %
Current consumption at nominal supply voltage	≤ 55 mA (inside)
Number of SMI channels	1
Number of drives per channel	16
Status indicator	Green LED
Interface	RS-232 (interface input)

### Safety and protection

Protection type	IP20
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### Connection data

Connection technology	CAGE CLAMP®
WAGO connector	WAGO 804 Series
Solid conductor	0.5 ... 2.5 mm <sup>2</sup> / 20 ... 12 AWG
Fine-stranded conductor	0.5 ... 2.5 mm <sup>2</sup> / 20 ... 12 AWG
Strip length	10 ... 11 mm / 0.39 ... 0.43 inches
Cable length (max.)	350 m (SMI bus; ≤ 3 m for data and power supply cable, RS-232)

### Physical data

Width	35 mm / 1.378 inches
Height	90 mm / 3.543 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches

### Mechanical Data

Mounting type	DIN-35 rail
Mounting position	any
Housing design	DIN-rail-mount enclosure

### Material Data

Weight	80 g
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Subject to changes. Please also observe the further product documentation!

## Environmental requirements

Ambient temperature (operation)	0 ... +50 °C
Ambient temperature (storage)	-25 ... +85 °C

## Standards and specifications

Standards/specifications	EN 50090-2-2
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## Commercial data


Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-37-12-16
eCl@ss 9.0	27-37-12-16
ETIM 8.0	EC000225
ETIM 7.0	EC000225
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821100317
Customs tariff number	8538909990

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02.B.00087/19

## Optional accessories

Tool
Operating tool

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

**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)**Jumpers**

## Jumper

**Item no.: 789-112**

Jumper; 12-way; silver-colored

[www.wago.com/789-112](http://www.wago.com/789-112)**Ferrule**

## Ferrule

**Item no.: 216-241**Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white[www.wago.com/216-241](http://www.wago.com/216-241)**Item no.: 216-242**Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray[www.wago.com/216-242](http://www.wago.com/216-242)**Item no.: 216-243**Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red[www.wago.com/216-243](http://www.wago.com/216-243)**Item no.: 216-244**Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black[www.wago.com/216-244](http://www.wago.com/216-244)**Marking accessories**

## Marking devices

**Item no.: 210-110**

Fiber-tip pen

[www.wago.com/210-110](http://www.wago.com/210-110)

## Marker

**Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-145](http://www.wago.com/2009-145)**Item no.: 248-451**

Mini-WSB marking card; as card; MARKED; K11 - K20 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-451](http://www.wago.com/248-451)**Item no.: 248-455**

Mini-WSB marking card; as card; MARKED; U 100 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-455](http://www.wago.com/248-455)**Item no.: 248-450**

Mini-WSB marking card; as card; MARKED; K1 - K10 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-450](http://www.wago.com/248-450)**Item no.: 248-452**

Mini-WSB marking card; as card; MARKED; K (100x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-452](http://www.wago.com/248-452)**Item no.: 248-453**

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

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Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.

	Mini-WSB marking card; as card; MARKED; U1, ... U10 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-453">www.wago.com/248-453</a>
	<b>Item no.: 248-454</b> Mini-WSB marking card; as card; MARKED; U11 - U20 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-454">www.wago.com/248-454</a>
	<b>Item no.: 248-566</b> Mini-WSB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-566">www.wago.com/248-566</a>
	<b>Item no.: 248-501</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/248-501">www.wago.com/248-501</a>
	<b>Item no.: 248-504</b> Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-504">www.wago.com/248-504</a>
	<b>Item no.: 248-503</b> Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-503">www.wago.com/248-503</a>
	<b>Item no.: 248-506</b> Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-506">www.wago.com/248-506</a>
	<b>Item no.: 248-502</b> Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-502">www.wago.com/248-502</a>

## Downloads

### Documentation

#### Manual

SMI_02_de.pdf	2015 May 12	1.3 MB	Download
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#### Bid Text

789-912 X81 - Datei	2019 Feb 19	xml 5.9 kB	Download
789-912 doc - Datei	2014 Nov 20	doc 27.6 kB	Download

#### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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Subject to changes. Please also observe the further product documentation!



## CAD/CAE-Data

### CAE data

EPLAN Data Portal 789-912	URL	Download
WSCAD Universe 789-912	URL	Download

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 789-912 Specialty electronic module; 2,50 mm <sup>2</sup>	URL	Download
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## Installation Notes

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