

## Item description

WAGO's RS-232/SMI interface module offers a standard interface to SMI LoVo-compliant electrical drives. The interface represents a purely physical level conversion between the standard RS-232 interface and the SMI LoVo 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 LoVo drives. These function blocks support both single and group addressing, as well as status monitoring. Both 750 Series Programmable Fieldbus Controllers' RS-232 onboard interfaces and 750-650/003-000 or 753-650/003-000 Serial RS-232 Interfaces can connect to the SMI LoVo Interface Module.

The module must be supplied with an external 24 VDC power source. RS-232 and 24 V power supply are electrically isolated from the SMI LoVo connections. 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 LoVo channels                   | 1                        |
| Number of drives per channel                  | 16                       |
| Status indicator                              | Green LED                |
| Interface                                     | RS-232 (interface input) |

### Safety and protection

|                 |      |
|-----------------|------|
| Protection type | IP20 |
|-----------------|------|

### Connection data

|                         |  |
|-------------------------|--|
| Connection technology   | CAGE CLAMP®  |
| WAGO connector          | WAGO 804 Series  |
| Solid conductor         | 0.5 ... 2.5 mm² / 20 ... 12 AWG                                |
| Fine-stranded conductor | 0.5 ... 2.5 mm² / 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 |
|--------|------|

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 |
|--------------------------|--------------|

## 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                  | 4050821101819            |
| Customs tariff number | 8538909990               |

## Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

## Approvals / Certificates

### General approvals




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

## Optional accessories












### Ferrule

|   |
|---|
| Ferrule   |
|  Item no.: 216-241 |

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

|   |  |  |
|---|--|--|
|   | 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                             | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a> |
|  | <b>Item no.: 216-242</b><br>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 | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a> |
|  | <b>Item no.: 216-243</b><br>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     | <a href="http://www.wago.com/216-243">www.wago.com/216-243</a> |
|  | <b>Item no.: 216-244</b><br>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 | <a href="http://www.wago.com/216-244">www.wago.com/216-244</a> |

**Marking accessories**

|  |   |  |
|--|---|--|
|  | Marking device  |  |
|    | <b>Item no.: 210-110</b><br>Fiber-tip pen   | <a href="http://www.wago.com/210-110">www.wago.com/210-110</a>   |
|  | Marker  |  |
|    | <b>Item no.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white        | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|    | <b>Item no.: 248-451</b><br>Mini-WSB marking card; as card; MARKED; K11 - K20 (10x); not stretchable; Horizontal marking; snap-on type; white   | <a href="http://www.wago.com/248-451">www.wago.com/248-451</a>   |
|  | <b>Item no.: 248-455</b><br>Mini-WSB marking card; as card; MARKED; U 100 (10x); not stretchable; Horizontal marking; snap-on type; white       | <a href="http://www.wago.com/248-455">www.wago.com/248-455</a>   |
|  | <b>Item no.: 248-450</b><br>Mini-WSB marking card; as card; MARKED; K1 - K10 (10x); not stretchable; Horizontal marking; snap-on type; white    | <a href="http://www.wago.com/248-450">www.wago.com/248-450</a>   |
|  | <b>Item no.: 248-452</b><br>Mini-WSB marking card; as card; MARKED; K (100x); not stretchable; Horizontal marking; snap-on type; white          | <a href="http://www.wago.com/248-452">www.wago.com/248-452</a>   |
|  | <b>Item no.: 248-453</b><br>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><br>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><br>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><br>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><br>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>   |

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

**Item no.: 248-503**Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white [www.wago.com/248-503](http://www.wago.com/248-503)**Item no.: 248-506**Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white [www.wago.com/248-506](http://www.wago.com/248-506)**Item no.: 248-502**Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white [www.wago.com/248-502](http://www.wago.com/248-502)**Jumpers**

Jumper

**Item no.: 789-112**

Jumper; 12-way; silver-colored

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

Operating tool

**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)**Downloads****Documentation****Manual**

|               |             |        |          |
|---------------|-------------|--------|----------|
| SMI_02_de.pdf | 2015 May 12 | 1.3 MB | Download |
|---------------|-------------|--------|----------|

**Bid Text**

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| 789-913<br>X81 - Datei | 2019 Feb 19 | xml<br>6.0 kB | Download |
|------------------------|-------------|---------------|----------|

|                        |             |                |          |
|------------------------|-------------|----------------|----------|
| 789-913<br>doc - Datei | 2014 Nov 20 | doc<br>27.6 kB | Download |
|------------------------|-------------|----------------|----------|

**Additional Information**

|   |                        |               |          |
|---|------------------------|---------------|----------|
| Disposal and Recycling<br>Electrical and electronic equipment, Batteries, Packaging | V 1.1.0<br>2022 Aug 18 | pdf<br>2.2 MB | Download |
|---|------------------------|---------------|----------|

**CAD/CAE-Data****CAE data**

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

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|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 789-913 | URL | Download |
| WSCAD Universe 789-913    | URL | Download |

Environmental Product Compliance

Compliance Search

|   |     |          |
|---|-----|----------|
| Environmental Product Compliance 789-913<br>Specialty electronic module; 2,50 mm <sup>2</sup> | URL | Download |
|---|-----|----------|

Installation Notes

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