



AS-i data decoupler 1 x 4 A Spring-type terminals, AS-i single  
Data decoupling module IP20, SlimLine S22.5 spring-type  
terminals Overall width module 22.5 mm IN: 24 V / 30 V DC  
OUT: 1 x AS-i, 4 A Integrated overload protection Integrated  
ground fault detection Signaling contact Remote reset

### General technical data

|   |    |  |
|---|----|--|
| <b>product designation</b>  |    | Single data decoupling module                                  |
| <b>design of the product</b>  |    | SlimLine S22.5 - Module to be used in the IP20 control cabinet |
| <b>protection class IP</b>  |    | IP20   |
| <b>installation altitude at height above sea level maximum</b>                      | m  | 2 000  |
| <b>ambient temperature</b>  |    |  |
| • during operation  | °C | -25 ... +70  |
| • during storage  | °C | -40 ... +85  |
| <b>relative humidity at 25 °C during operation maximum</b>                          | %  | 70   |
| <b>reference code according to DIN 40719 extended</b>                               |    | A  |
| <b>according to IEC 204-2 according to IEC 750</b>                                  |    |  |
| <b>reference code according to EN 61346-2</b>                                       |    | A  |
| <b>supplied active power</b>  | W  | 120  |
| <b>mechanical service life (operating cycles) of the signaling contacts typical</b> |    | 1 000 000  |
| <b>product function</b>   |    |  |
| • auto-RESET  |    | No   |
| • external reset  |    | Yes  |
| • manual RESET  |    | Yes  |
| • ground fault detection  |    | Yes  |
| • test function of signaling contacts   |    | Yes  |
| • suitable for grounded AS-i networks   |    | Yes  |
| • adapted for non-grounded AS-i networks  |    | Yes  |
| • suitable for AS-i Power24V  |    | Yes  |
| • sequential connected time-delay   |    | No   |
| • AS-Interface data decoupling  |    | Yes  |
| <b>reset function</b>   |    | yes  |
| adjustable current response value current of the current-dependent overload release | A  | 2.5 ... 4  |
| <b>number of electrical connections for signaling contact</b>                       |    | 2  |
| <b>number of outputs for AS-Interface maximum</b>                                   |    | 1  |
| <b>display version as status display by LED</b>                                     |    | yes  |
| <b>number of switching contacts as NO contact for signaling function</b>            |    | 1  |
| <b>design of the switching contact as NO contact for signaling function</b>         |    | yes  |

### Communication/ Protocol

|  |  |     |
|--|--|-----|
| <b>protocol is supported AS-Interface protocol</b> |  | Yes |
|--|--|-----|

### Auxiliary circuit

|  |   |   |
|--|---|---|
| <b>operational current of auxiliary contacts</b> |   |   |
| • at AC-15 at 24 V                               | A | 3 |

- at DC-13 at 24 V

A

1

## Inputs/ Outputs

### type of voltage

- of the input voltages
- of the input voltage

DC

DC

### property of the output short-circuit proof

Yes

### output voltage

- 1 at DC
  - rated value
  - rated value
- 2 at DC rated value

V

30

V

20.5 ... 31.6

V

24

### output current at DC maximum

A

4

### input voltage

- 1 at DC
  - rated value
  - rated value
- 2 at DC rated value

V

30

V

21 ... 32

V

24

### input current at DC maximum

A

4.1

## Short-circuit protection

### design of short-circuit protection

electronic

## Installation/ mounting/ dimensions

### mounting position

vertical

### fastening method

35-mm DIN rail mounting or wall mounting with plug-in flaps

### width

mm

22.5

### height

mm

104.9

### depth

mm

121.2

### type of electrical connection for auxiliary and control circuit

spring-loaded terminals

### product component removable terminal for auxiliary and control circuit

Yes

### type of connectable conductor cross-sections

- for auxiliary contacts
  - solid
  - finely stranded
    - with core end processing
    - without core end processing
- at AWG cables for auxiliary contacts

2x (0.25 ... 1.5 mm<sup>2</sup>)2x (0.25 ... 1.5 mm<sup>2</sup>)2x (0.25 ... 1.5 mm<sup>2</sup>)

2x (24 ... 16)

### certificate of suitability

CE / UL / CSA

### suitability for use safety-related circuits

Yes

## Certificates/ approvals

### General Product Approval

### EMC

### Declaration of Conformity


[Confirmation](#)


### Marine / Shipping

### other


[Confirmation](#)

## Further information

### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1901-1DG12-1AA0>

Cax online generator

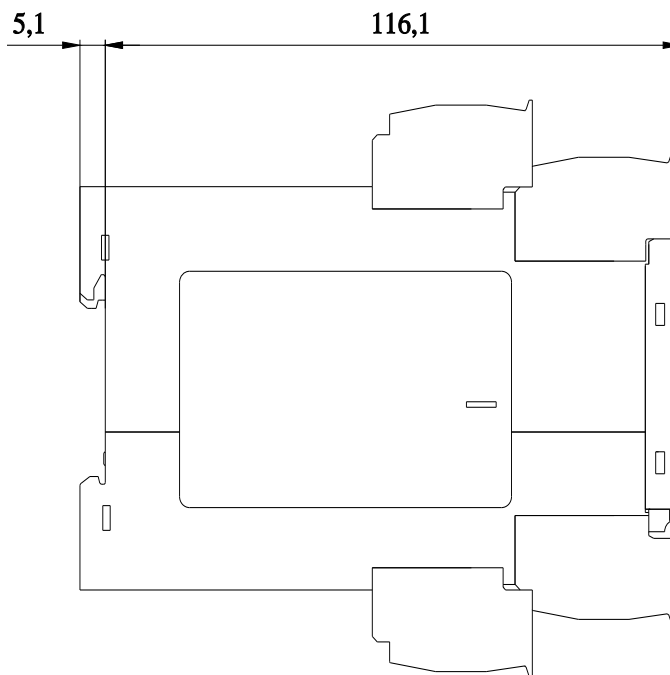
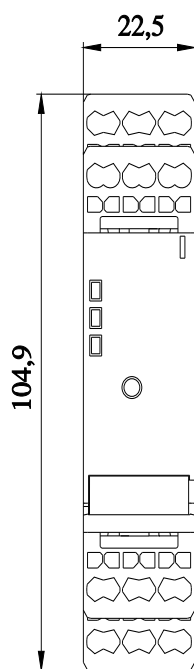
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1901-1DG12-1AA0>

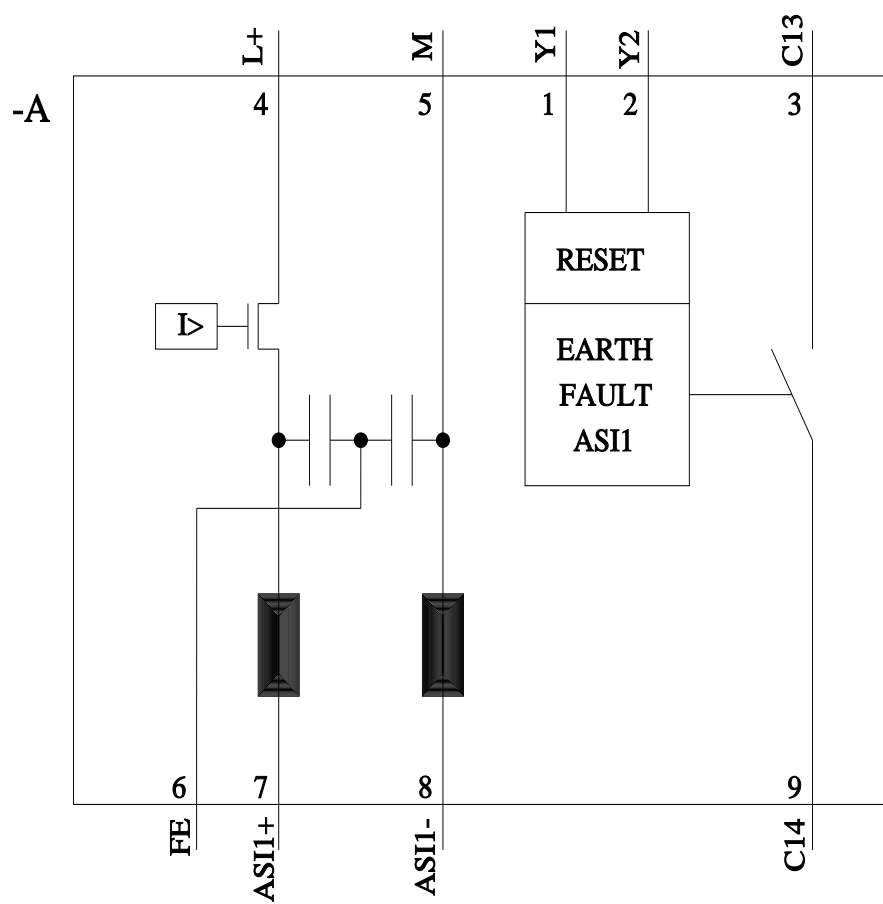
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1901-1DG12-1AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1901-1DG12-1AA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1901-1DG12-1AA0&lang=en)





last modified:

1/18/2021