



DP/AS-Interface F-Link. gateway PROFIBUS DP/AS-i for safety-oriented data transmission from ASIsafe to PROFIBUS-DP-PROFIsafe. Master profile M3/M4 according to AS-i specification V3.0. degree of protection IP20. screw terminals

| General technical data | | |
|---|----|---|
| product designation | | PROFIsafe/ASIsafe F-Link |
| product type designation | | DP/AS-i F-Link |
| protection class IP | | IP20 |
| type of electrical connection of the AS-Interface | | Screw-type connection |
| type of voltage supply | | via 24 V DC |
| consumed current | | |
| <ul style="list-style-type: none"> from profile conductors of the AS-Interface — at 24 V with AS-i Power24V maximum | mA | 100 |
| power loss [W] | W | 3 |
| insulation voltage rated value | V | 500 |
| product feature redundancy capability | | No |
| product function suitable for AS-i Power24V | | No |
| product function | | |
| <ul style="list-style-type: none"> web-based management diagnostics via email galvanic isolation | | No No Yes |
| display version | | |
| <ul style="list-style-type: none"> as status display by LED as status indication through display | | DEVICE, ASi, BF, SF Dot-matrix display, 2-line |
| type of configuration of the AS-Interface | | Set pushbutton on device, STEP7, GSD, command interface |
| Communication/ Protocol | | |
| version of the AS-Interface specification | | V 3.0 |
| AS-Interface master profile is supported | | M4 (in acc. with AS-interface specification V 3.0) |
| type of data transmission | | PROFIBUS |
| number of interfaces | | |
| <ul style="list-style-type: none"> as AS-Interface according to RS 485 according to Industrial Ethernet according to PROFINET according to wireless according to USB other | | 1 1 0 0 0 0 0 |
| product component optical interface | | No |
| protocol is supported | | |
| <ul style="list-style-type: none"> ASIsafe (Safety at work) protocol PROFIsafe protocol PROFIBUS protocol PROFINET IO protocol | | Yes Yes Yes No |

| | | |
|---|--|----|
| <ul style="list-style-type: none"> • PROFINET CBA protocol | | No |
| <ul style="list-style-type: none"> • TCP/IP | | No |
| <ul style="list-style-type: none"> • SNMP | | No |
| standard for wireless communication IEEE 802.11 | | No |

Inputs/ Outputs

| | | |
|--|----|---|
| number of inputs for AS-Interface maximum | | 496 |
| number of outputs for AS-Interface maximum | | 496 |
| number of AS-i devices per AS-Interface maximum | | 62 |
| bus cycle time of the AS-Interface | | |
| <ul style="list-style-type: none"> • for 31 devices | ms | 5 |
| <ul style="list-style-type: none"> • for 62 devices | ms | 10 |
| access to digital I/O data | | via process image/peripheral addresses |
| access to analog I/O data | | via process diagram/peripheral addresses and data record transfer |

Mechanical data

| | | |
|-------------------------|----|--|
| width | mm | 45 |
| height | mm | 111 |
| depth | mm | 124 |
| fastening method | | snap-on fastening on 35 mm DIN rail or screw fastening using an additional push-in lug |
| module format | | IP20 |

Ambient conditions

| | | |
|---|----|-------------|
| ambient temperature | | |
| <ul style="list-style-type: none"> • if installed on horizontal mounting rail during operation | °C | 0 ... 50 |
| <ul style="list-style-type: none"> • during transport | °C | -40 ... +85 |
| <ul style="list-style-type: none"> • during storage | °C | -40 ... +85 |
| relative humidity at 25 °C during operation maximum | % | 95 |
| installation altitude at height above sea level maximum | m | 2 000 |

Safety related data

| | | |
|---|--|----------|
| suitability for use safety-related function | | Yes |
| category according to EN 954-1 | | 4 |
| Safety Integrity Level (SIL) according to IEC 61508 | | SIL 3 |
| SIL Claim Limit (subsystem) according to EN 62061 | | 3 |
| performance level (PL) according to EN ISO 13849-1 | | e |
| requirement class according to DIN V 19250 | | AK7, AK8 |
| explosion protection marking for intrinsic safety of related equipment | | |
| <ul style="list-style-type: none"> • EEx ia | | No |
| <ul style="list-style-type: none"> • EEx ib | | No |
| explosion protection category for gas | | none |
| explosion protection category for dust | | none |

Certificates/ approvals

| | | |
|--------------------------|-----|-------------------|
| General Product Approval | EMV | Functional Safety |
|--------------------------|-----|-------------------|



[Type Examination Certificate](#)

| | | | |
|-------------------|-------|-------------|--------------------------|
| Test Certificates | other | Environment | Industrial Communication |
|-------------------|-------|-------------|--------------------------|

[Type Test Certificates/Test Report](#)

[Confirmation](#)



[Environmental Confirmations](#)



Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RK3141-1CD10>

Cax online generator

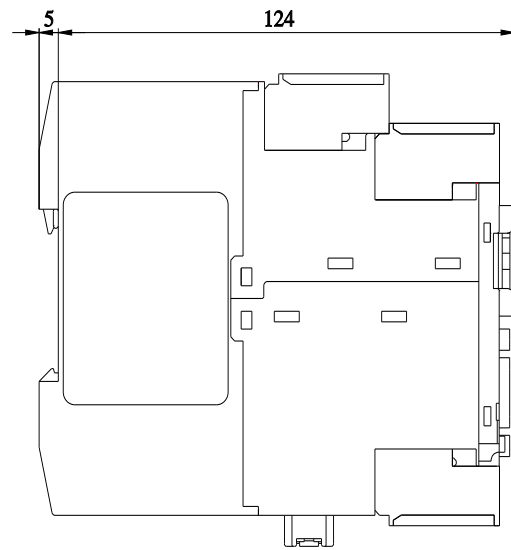
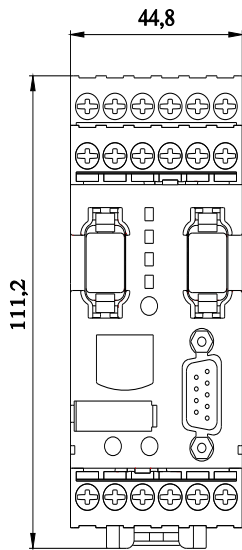
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3141-1CD10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK3141-1CD10>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3141-1CD10&lang=en



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