



Figure similar

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. spring-loaded 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		Spring-type terminal
type of voltage supply		via 24 V DC
consumed current		
<ul style="list-style-type: none"> <li>from profile conductors of the AS-Interface</li> <li>— at 24 V with AS-i Power24V maximum</li> </ul>	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"> <li>web-based management</li> <li>diagnostics via email</li> <li>galvanic isolation</li> </ul>		No No Yes
display version		
<ul style="list-style-type: none"> <li>as status display by LED</li> <li>as status indication through display</li> </ul>		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"> <li>as AS-Interface</li> <li>according to RS 485</li> <li>according to Industrial Ethernet</li> <li>according to PROFINET</li> <li>according to wireless</li> <li>according to USB</li> <li>other</li> </ul>		1 1 0 0 0 0 0
product component optical interface		No
protocol is supported		
<ul style="list-style-type: none"> <li>ASIsafe (Safety at work) protocol</li> <li>PROFIsafe protocol</li> <li>PROFIBUS protocol</li> </ul>		Yes Yes Yes

• PROFINET IO protocol		No
• PROFINET CBA protocol		No
• TCP/IP		No
• SNMP		No
<b>standard for wireless communication IEEE 802.11</b>		No

### Inputs/ Outputs

<b>number of inputs for AS-Interface maximum</b>		496
<b>number of outputs for AS-Interface maximum</b>		496
<b>number of AS-i devices per AS-Interface maximum</b>		62
<b>bus cycle time of the AS-Interface</b>		
• for 31 devices	ms	5
• for 62 devices	ms	10
<b>access to digital I/O data</b>		via process image/peripheral addresses
<b>access to analog I/O data</b>		via process diagram/peripheral addresses and data record transfer

### Mechanical data

<b>width</b>	mm	45
<b>height</b>	mm	113
<b>depth</b>	mm	124
<b>fastening method</b>		snap-on fastening on 35 mm DIN rail or screw fastening using an additional push-in lug
<b>module format</b>		IP20

### Ambient conditions

<b>ambient temperature</b>		
• if installed on horizontal mounting rail during operation	°C	0 ... 50
• during transport	°C	-40 ... +85
• during storage	°C	-40 ... +85
<b>relative humidity at 25 °C during operation maximum</b>	%	95
<b>installation altitude at height above sea level maximum</b>	m	2 000

### Safety related data

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

### Certificates/ approvals

<b>General Product Approval</b>	<b>EMV</b>	<b>Functional Safety</b>
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[Type Examination Certificate](#)

<b>Test Certificates</b>	<b>other</b>	<b>Environment</b>
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[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=3RK3141-2CD10>

Cax online generator

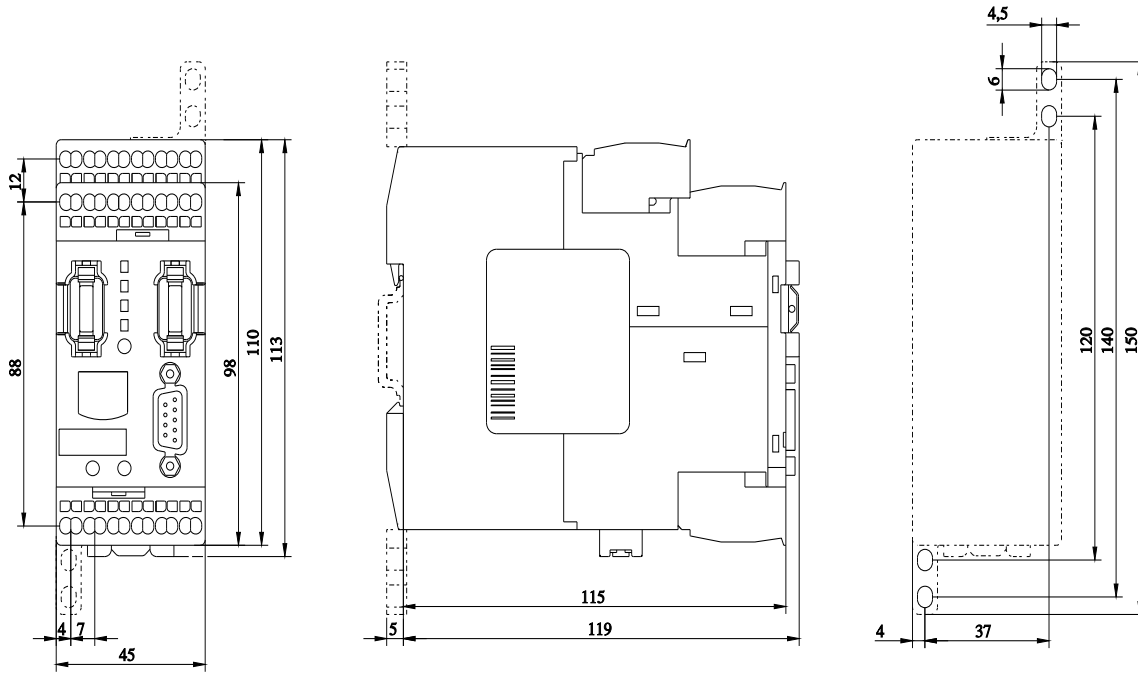
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3141-2CD10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK3141-2CD10>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK3141-2CD10&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3141-2CD10&lang=en)



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