



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		
• 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		
• web-based management		No
• diagnostics via email		No
• galvanic isolation		Yes
display version		
• as status display by LED		DEVICE, ASi, BF, SF
• as status indication through display		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		
• as AS-Interface		1
• according to RS 485		1
• according to Industrial Ethernet		0
• according to PROFINET		0
• according to wireless		0
• according to USB		0
• other		0
product component optical interface		No
protocol is supported		
• ASIsafe (Safety at work) protocol		Yes
• PROFIsafe protocol		Yes
• PROFIBUS protocol		Yes
• PROFINET IO protocol		No

• PROFINET CBA protocol		No
• TCP/IP		No
• 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 slaves per AS-Interface maximum		62
bus cycle time of the AS-Interface		
• for 31 slaves	ms	5
• for 62 slaves	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	113
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		
• if installed on horizontal mounting rail during operation	°C	0 ... 50
• during transport	°C	-40 ... +85
• 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		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		
• EEx ia		No
• EEx ib		No
explosion protection category for gas		none
explosion protection category for dust		none

Certificates/ approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery
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[Confirmation](#)



[Type Examination Certificate](#)

Declaration of Conformity	Test Certificates	other
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[Type Test Certificates/Test Report](#)

[Confirmation](#)

Further information

Siemens has decided to exit the Russian market (see here).
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RK3141-2CD10>

Cax online generator

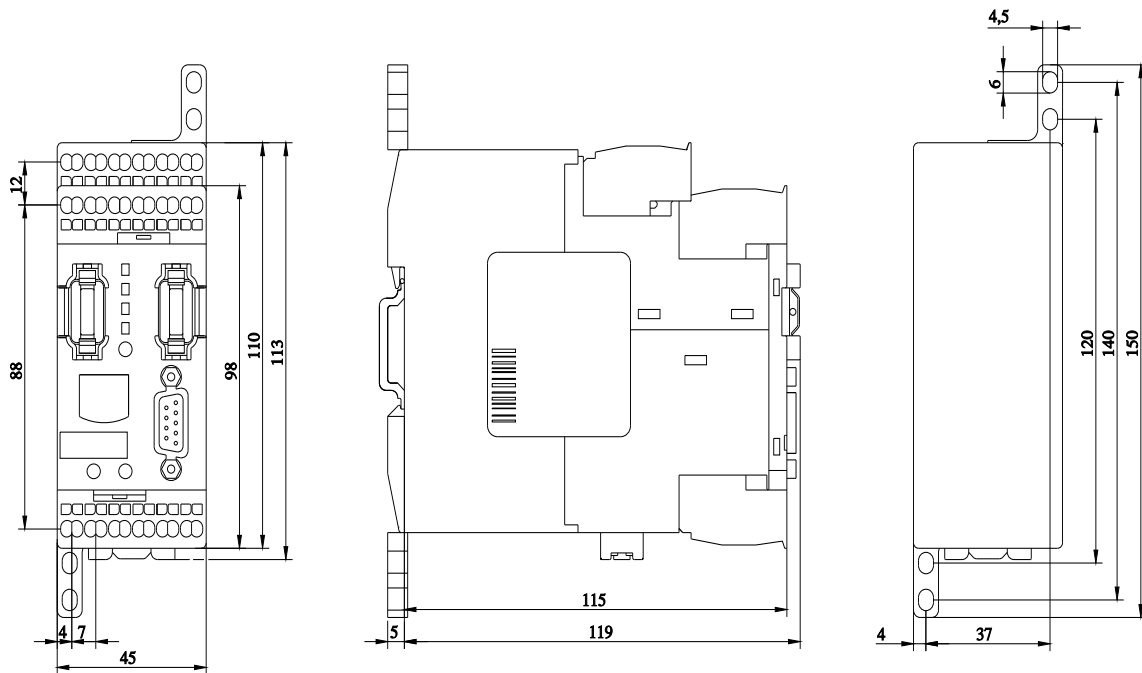
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3141-2CD10>

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, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3141-2CD10&lang=en



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