



DP/AS-I F-LINK, GATEWAY PROFIBUS DP/AS-I FOR SAFETY-RELATED DATA TRANSMISSION FROM ASISAFE TO PROFIBUS DP - PROFISAFE. MASTER PROFILE M3/ M4 ACC. TO EXTENDED AS-I SPEC.3.0. DEGREE OF PROTECTION IP20. SCREW TYPE 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
Operating condition separate power supply 24 V		Yes
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 function suitable for AS-i Power24V		No
Product feature redundancy capability		No
Product function		
• web-based management		No
• Diagnostics via email		No
• Galvanic isolation		Yes
Display version		

• as status display by LED • as status indication through display		DEVICE, ASi, BF, SF
Type of configuration of the AS-interface		Dot-matrix display, 2-line
		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
• acc. to RS 485		1
• acc. to Industrial Ethernet		0
• acc. to PROFINET		0
• acc. to wireless		0
• acc. 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	111
Depth	mm	124
Mounting type		snap-on fastening on 35 mm standard mounting rail or screw fastening using an additional push-in lug

Module format	IP20
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Ambient conditions:

Ambient temperature		
• if installed on horizontal mounting rail	°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 acc. to EN 954-1		4
Safety Integrity Level (SIL) acc. to IEC 61508		SIL3
SIL Claim Limit (subsystem) acc. to EN 62061		3
Performance level (PL) acc. 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	Declaration of Conformity
 CSA	 UL	 EAC	 C-Tick
		Baumusterprüfbescheinigung	 EG-Konf.

Test Certificates	other
spezielle Prüfbescheinigungen	Bestätigungen
 ASi	Umweltbestätigung
	 Profibus

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

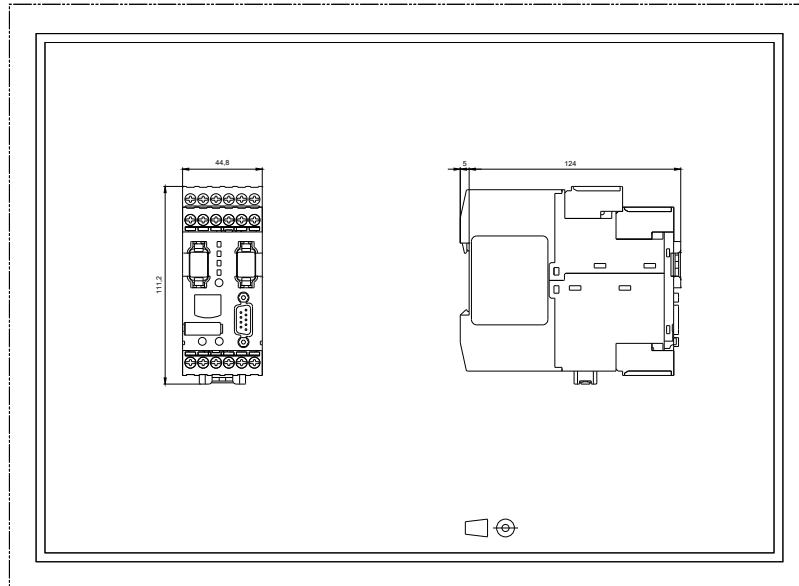
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3141-1CD10>

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, ...)

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



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