



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		
<ul style="list-style-type: none"> <li>from profile conductors of the AS-interface</li> </ul>		
<ul style="list-style-type: none"> <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 function suitable for AS-i Power24V		No
Product feature redundancy capability		No
Product function		
<ul style="list-style-type: none"> <li>web-based management</li> </ul>		No
<ul style="list-style-type: none"> <li>Diagnostics via email</li> </ul>		No
<ul style="list-style-type: none"> <li>Galvanic isolation</li> </ul>		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
<b>Type of configuration of the AS-interface</b>		Set pushbutton on device, STEP7, GSD, command interface

#### Communication/ Protocol:

<b>Version of the AS-interface specification</b>		V 3.0
<b>AS-interface master profile is supported</b>		M4 (in acc. with AS-interface specification V 3.0)
<b>Type of data transmission</b>		PROFIBUS
<b>Number of interfaces</b>		
<ul style="list-style-type: none"> <li>• as AS-interface</li> <li>• acc. to RS 485</li> <li>• acc. to Industrial Ethernet</li> <li>• acc. to PROFINET</li> <li>• acc. to wireless</li> <li>• acc. to USB</li> <li>• other</li> </ul>		1 1 0 0 0 0 0
<b>Product component optical interface</b>		No
<b>Protocol is supported</b>		
<ul style="list-style-type: none"> <li>• ASIsafe (Safety at work) protocol</li> <li>• PROFIsafe protocol</li> <li>• PROFIBUS protocol</li> <li>• PROFINET IO protocol</li> <li>• PROFINET CBA protocol</li> <li>• TCP/IP</li> <li>• SNMP</li> </ul>		Yes Yes Yes No No No 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 slaves per AS-Interface maximum</b>		62
<b>Bus cycle time of the AS-interface</b>		
<ul style="list-style-type: none"> <li>• for 31 slaves</li> <li>• for 62 slaves</li> </ul>	ms ms	5 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	111
<b>Depth</b>	mm	124
<b>Mounting type</b>		snap-on fastening on 35 mm standard mounting rail or screw fastening using an additional push-in lug

Module format	IP20
---------------	------






#### Ambient conditions:



<b>Ambient temperature</b>		
• if installed on horizontal mounting rail	°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 acc. to EN 954-1</b>		4
<b>Safety Integrity Level (SIL) acc. to IEC 61508</b>		3
<b>SIL Claim Limit (subsystem) acc. to EN 62061</b>		3
<b>Performance level (PL) acc. 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:

General Product Approval	EMC	Functional Safety/Safety of Machinery	Declaration of Conformity
 CSA	 UL		 C-Tick
		<a href="#">Type Examination Certificate</a>	 EG-Konf.

Test Certificates	other
<a href="#">Special Test Certificate</a>	 ASi
	<a href="#">Confirmation</a>
	<a href="#">Environmental Confirmations</a>
	 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**

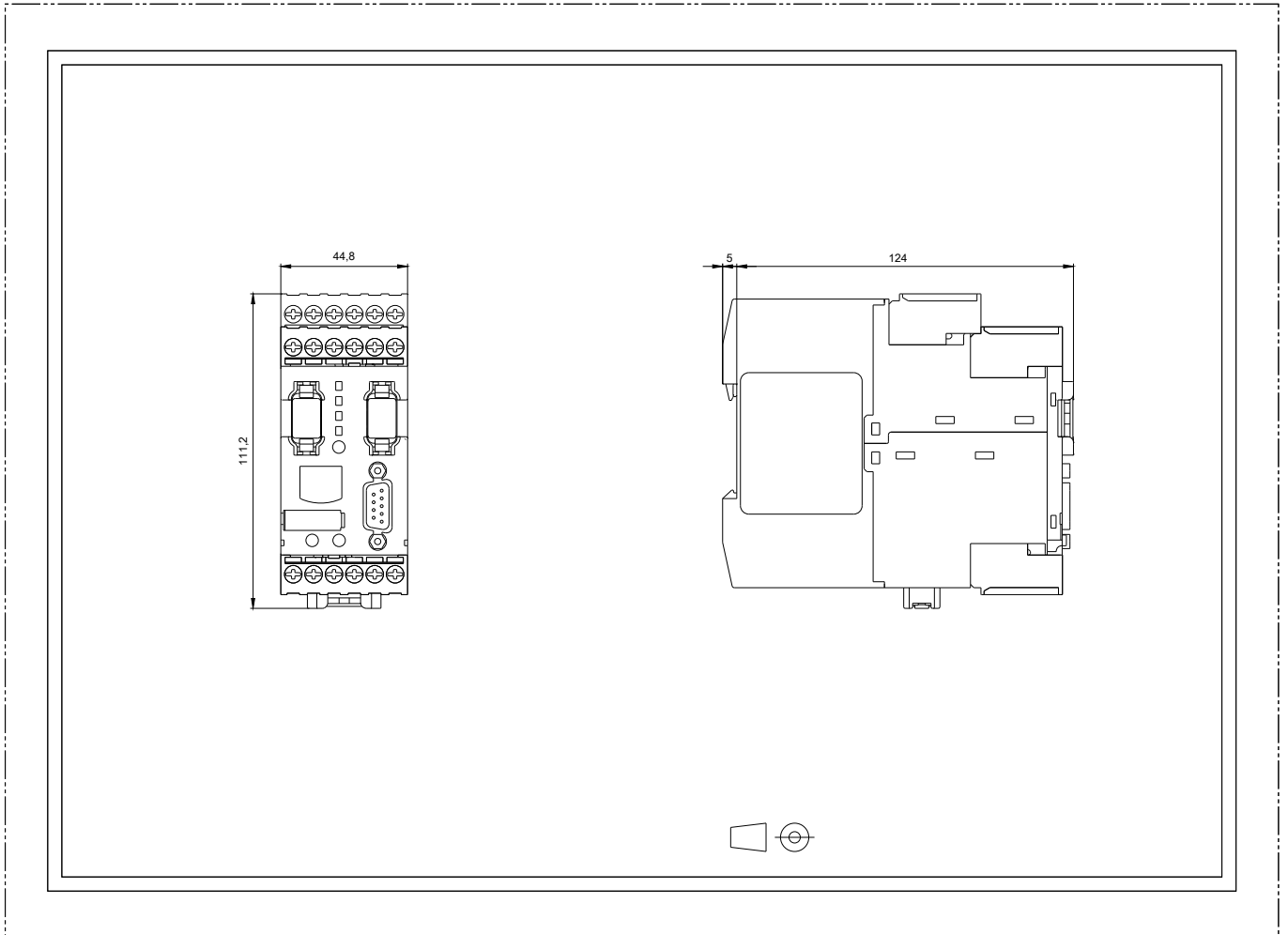
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK3141-1CD10>

**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?mfb=3RK3141-1CD10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RK3141-1CD10&lang=en)



last modified:

07/17/2017