



!!! phased-out product !!! The preferred successor is 6ES7141-5BF00-0BL0 IO-Link module K20, digital 8 DI, IP67, 8x 1 input sensor supply max. 400 mA 8x M8 socket standard assignment

General technical data		
product designation		IO-Link module K20
design of the product		8 digital inputs
display version		<ul style="list-style-type: none"> <li>as status display of the inputs/outputs</li> <li>as status display of the input/output link communication</li> <li>as status display of the input/output link device</li> </ul>
evaluable diagnostic message via input/output link		overload/short-circuit sensor supply, internal error
protection class IP		IP67
product function control circuit interface with IO link		Yes
type of voltage supply via input/output link master		Yes
installation altitude at height above sea level maximum	m	4 000
ambient temperature		<ul style="list-style-type: none"> <li>during storage</li> <li>during operation</li> </ul>
	°C	-40 ... +85
	°C	-25 ... +70
EMC immunity according to IEC 60947-1		ambience A (industrial sector)
EMC emitted interference according to IEC 60947-1		CISPR11, ambience A (industrial sector)
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		A
reference code according to EN 61346-2		K
Inputs/ Outputs		
number of digital inputs		8
number of digital outputs		0
type of parameterization		<ul style="list-style-type: none"> <li>of the input delay time</li> <li>of the inverting of the input signal</li> </ul>
		adjustable for each module (1 ms, 3 ms, 15 ms, 20 ms)
		adjustable for each input
ampacity of the sensor supply		
• maximum	mA	400
• of socket 1 to 4 maximum	mA	200
• of socket 5 to 8 maximum	mA	200
input current at digital input		
• initial value for signal<1>-recognition	mA	11
• full-scale value for signal<0> recognition	mA	1.5
input voltage at digital input 1 initial value for signal<1>-recognition	V	10
Supply voltage		
type of voltage of the supply voltage		DC
supply voltage		
• 1 at DC rated value	V	24

• at DC rated value	V	18
— minimum permissible	V	30
— maximum permissible		

#### Installation/ mounting/ dimensions

fastening method		frontal or lateral wall mounting
width	mm	20
height	mm	164
depth	mm	45

#### Connections/ Terminals

number of input/output sockets		8
design of the pin assignment of the inputs		standard assignment
contact assignment		
• of socket 1 at PIN 1		sensor supply +
• of socket 1 at PIN 3		sensor supply -
• of socket 1 at PIN 4		IN1
• of socket 2 at PIN 1		sensor supply +
• of socket 2 at PIN 3		sensor supply -
• of socket 2 at PIN 4		IN2
• of socket 3 at PIN 1		sensor supply +
• of socket 3 at PIN 3		sensor supply -
• of socket 3 at PIN 4		IN3
• of socket 4 at PIN 1		sensor supply +
• of socket 4 at PIN 3		sensor supply -
• of socket 4 at PIN 4		IN4
• of socket 5 at PIN 1		sensor supply +
• of socket 5 at PIN 3		sensor supply -
• of socket 5 at PIN 4		IN5
• of socket 6 at PIN 1		sensor supply +
• of socket 6 at PIN 3		sensor supply -
• of socket 6 at PIN 4		IN6
• of socket 7 at PIN 1		sensor supply +
• of socket 7 at PIN 3		sensor supply -
• of socket 7 at PIN 4		IN7
• of socket 8 at PIN 1		sensor supply +
• of socket 8 at PIN 3		sensor supply -
• of socket 8 at PIN 4		IN8

#### Certificates/ approvals

certificate of suitability	CE
General Product Approval	EMV other



other	Environment
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[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=3RK5010-0CA00-0AA0>

Cax online generator

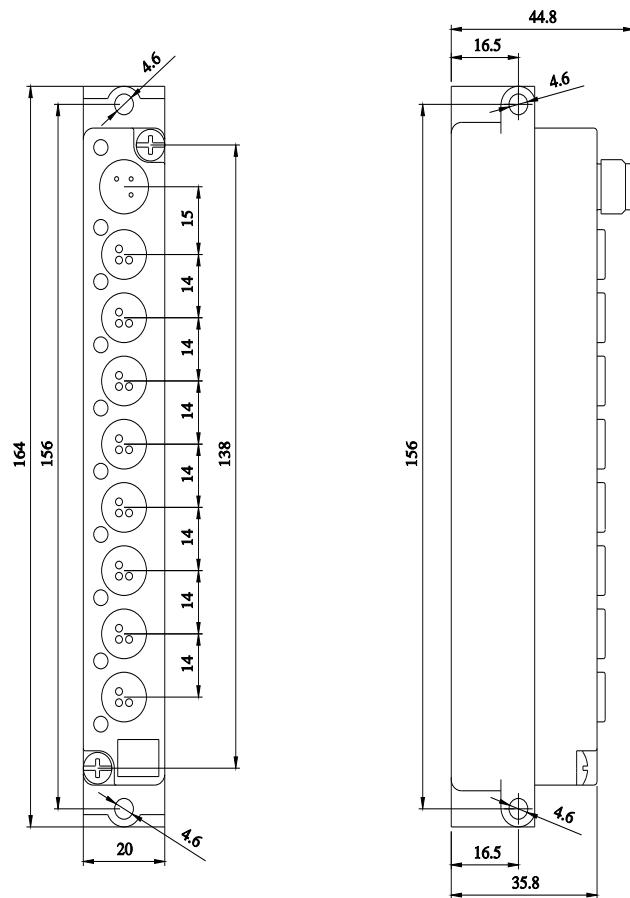
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK5010-0CA00-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK5010-0CA00-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RK5010-0CA00-0AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RK5010-0CA00-0AA0&lang=en)



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last modified:

4/2/2025