SIEMENS

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		
• as status display of the inputs/outputs		green LED for each channel
• as status display of the input/output link communication		green/red dual LED
• as status display of the input/output link device		green/red dual LED
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		
• during storage	°C	-40 ... +85
• during operation	°C	-25 ... +70
EMI immunity acc. to IEC 60947-1		ambience A (industrial sector)
EMC emitted interference acc. to IEC 60947-1		CISPR11, ambience A (industrial sector)

09/24/2020

Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		A
Reference code acc. to DIN EN 61346-2		K

Inputs/ Outputs

Number of digital inputs		8
Number of digital outputs		0
Type of parameterization		
• of the input delay time		adjustable for each module (1 ms, 3 ms, 15 ms, 20 ms)
• of the inverting of the input signal		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		
— minimum permissible	V	18
— maximum permissible	V	30

Installation/ mounting/ dimensions

Mounting type		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 assignement
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			Declaration of Conformity	other
CSA	UL	EAC	CE EG-Konf.	Miscellaneous Confirmation

Further information

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
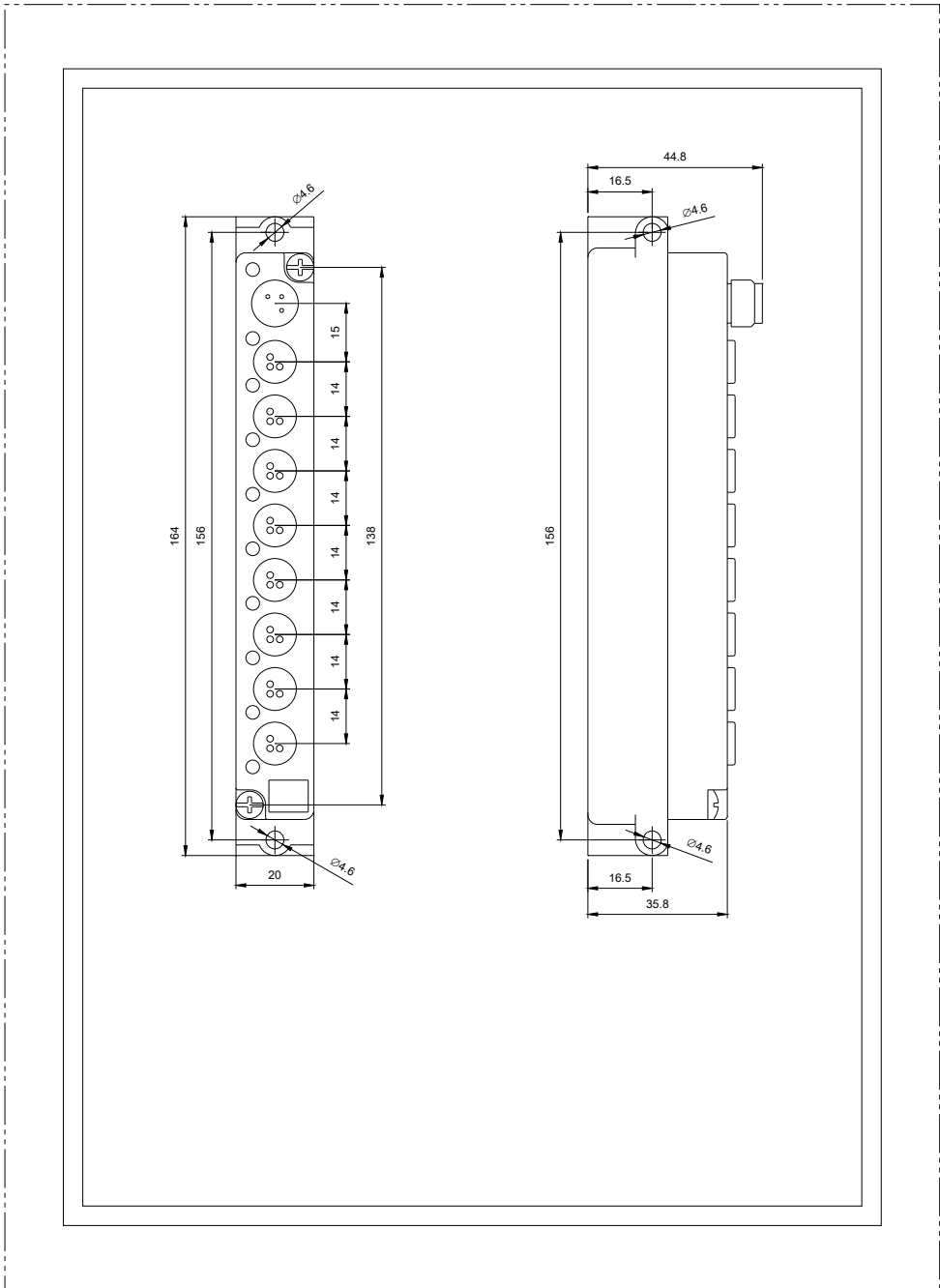
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK5010-0CA00-0AA0

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, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK5010-0CA00-0AA0&lang=en

last modified: 09/24/2020