SIEMENS

Data sheet 3RK1200-0CQ05-0AA3

Figure similar

AS-i compact module K60 digital 4 DI, IP67 4 x input, maximum 200 mA 4 x M12 socket Y-II assignment ATEX EX II 3D T60°C IP65X Observe special conditions for safe operation: Suitable protective measures against mechanical damage required. For details, see operating instructions Mounting plate 3RK1901-0CA00 must be ordered separately

General technical data	
design of the product	digital I/O modules for operation in the field, IP67 - K60
Type	4 inputs
design of the slave type	standard slave
I/O configuration	0
ID/ID2 code	1/F
Number I/O sockets	4
type of electrical connection of the inputs and outputs	M12 screw-type terminals
AS interface total current input max	270 mA
operating voltage according to AS-Interface spezification	26.5 ... 31.6 V
Ground terminal	PIN5 of each M12 socket is connected to the grounding wrist strap in the mounting plate using a pin
Addressing	front addressing socket
Application	Use in Zone 22 hazardous areas according to Classification II 3D (dusty atmosphere, non-conductive dust), resistance to shock: 1 joule Conformance with Directive 94/9/EC (ATEX) is verified through compliance with the standards EN 50281-1-1 und EN 60947-5-2
Delivery note	the modules are delivered without mounting plate
Sensor supply	
type of voltage supply for sensor supply	using AS-Interface
input voltage	20 ... 30 V
property of the sensor supply short-circuit and overload resistant	Yes
ampacity of the sensor supply for all inputs	
● at ambient temperature 40 °C	200 mA
Inputs	
number of digital inputs	4
type of connection technology	2- and 3-wire technology
Input circuit	PNP transistor
type of voltage of the input voltages	DC
Inputs switching level High min	10 V
input current at digital input	
● for signal <1> minimum	6 mA
● with signal <0> maximum	1.5 mA
Inputs	
● sensor supply using AS-Interface	short-circuit and overload resistant
● socket assignment	
— PIN 1	sensor supply L+
— PIN 2	data input II
— PIN 3	sensor supply L-
— PIN 4	data input I

— PIN 5	ground terminal
design of the pin assignment of the inputs	Y-II assignement
Outputs	
number of digital outputs	0
Outputs external power supply 24 V DC	not required
Outputs	
● watchdog	not required
Assignment of the data bits	
Assignment of data bits	
● socket	PIN 4 = IN1 (D0), PIN 2 = IN2 (D1)
● socket 2	PIN 4 = IN2 (D1)
● socket 3	PIN 4 = IN3 (D2) , PIN 2 = IN4 (D3)
● socket 4	PIN 4 = IN4 (D3)
● socket 5	not assigned (closed)
● socket 6	not assigned (closed)
● socket 7	not assigned (closed)
● socket 8	not assigned (closed)
Ambient conditions	
ambient temperature	
● during operation	-25 ... +85 °C
● during storage	-40 ... +85 °C
protection class IP	IP65
Display	
Status display	
● display of I/Os	yellow LED
● display of Uaux	not required
● display of AS-Interface/diagnostics	green/red LED
Mechanical data	
width	60 mm
height	152 mm
depth	29 mm
fastening method	standard rail mounting/wall mounting using mounting plate for K60 compact module
shock resistance	15g / 11 ms
Certificates/ approvals	
explosion protection category for dust	(Ex) II 3D Ex tD A22 IP65X T60°C
Limiting conditions for safe operation	Suitable measures must be taken to protect the module from mechanical damage. All M12 connectors must be secured by a lock-clip against unauthorized opening such that the connector cannot be disconnected by hand but only by destroying the lock-clip. A suitable lock-clip is available from Binder GmbH + Co., Elektrische Bauelemente KG, Postfach 1152, 74148 Neckarsulm, Germany, Tel. +49 (0)7132/325-0, Fax +49 (0)7132/325-150, info@binder-connector.de, Article No. 16-0977-000. All the M12 sockets which are not assigned must be closed with 3RK1 901-1KA01 caps (tamper-proof version) such that they cannot be released by hand. Addressing the module using the 3RK1 904-2AB01 addressing unit is only permitted outside the EX-Zone 22. When the addressing operation is finished, the addressing socket must be closed with a 3RK1 901-1KA01 sealing cap (tamper-proof version) such that it cannot be released by hand. If an additional supply (AUX POWER) is required, it must comply with VDE 0106 (PELV), protection class III.
Safety and commissioning instructions	The devices are approved for an ambient temperature of -25 to +85 °C. The devices must be configured, connected and commissioned by qualified, responsible personnel only. An incorrect response may cause serious injury to persons and damage to property. It is assumed that personnel are familiar with the assignment of classes to the permitted hazardous zones. The plug connectors and AS-Interface cables must not be connected or disconnected when live. The units require no maintenance. No modifications or repairs are allowed to be carried out on the units. All the above points must be observed in the event of replacement. See also Regulations for Installation EN 60079-14 / EN 50281-1-2.

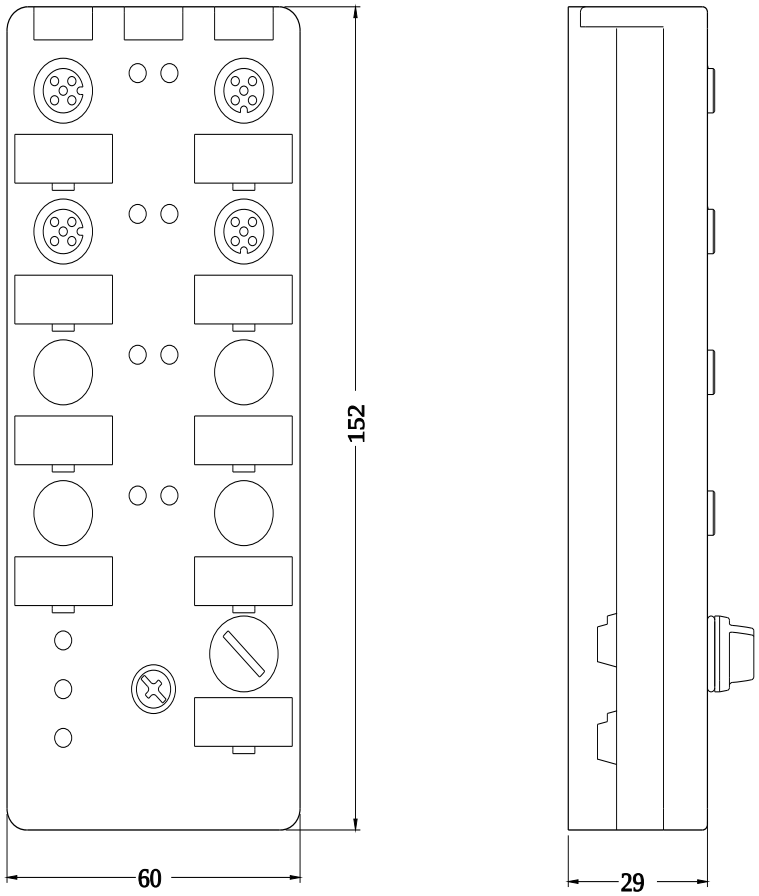
General Product Approval		EMV
CE EG-Konf.	Confirmation	UKCA UL EAC RCM

EMV	For use in hazard-ous locations	Marine / Shipping		other	
KC	CE EG-Konf.	DNV	PRS	Confirmation	Miscellaneous

Environment	Industrial Communication
Environmental Con-firmations	ASi

Further information

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=3RK1200-0CQ05-0AA3
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1200-0CQ05-0AA3
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1200-0CQ05-0AA3
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1200-0CQ05-0AA3&lang=en



last modified: 3/10/2021