



AS INTERFACE COMP. MODULE K60, DIGITAL,
4I, IP67, 4 X 1 INPUT, MAX. 200 MA,
PNP,
4 X M12 STANDARD SOCKET Y-II ALLOCATION ATEX EX
II 3D T60 C IP65X OBSERVE SPECIAL CONDITIONS FOR
SAFE OPERATION: SUITABLE PROT. MEASURES
AGAINST MECHANICAL DAMAGE REQUIRED. DETAILS
SEE OPERATING INSTRUCTIONS ORDER MOUNT.
PLATE 3RK19010CA00 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/IID2 code		1/F
Number / I/O sockets		4
Design of the electrical connection / of the inputs and outputs		M12 screw-type terminals
AS interface / total current input / max	mA	270
operating voltage		
• according to AS-Interface spezification	V	26.5 ... 31.6
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

Note 1		All K60 compact modules are delivered with stainless steel screws/sockets
Sensor supply:		
Type of voltage supply / for the sensor supply		using AS-Interface
Input voltage	V	20 ... 30
Characteristic feature of the sensor supply / short-circuit and overload resistant		Yes
Current carrying capacity / of the sensor supply / for all inputs • at ambient temperature 40 °C	mA	200
Inputs:		
Number of digital inputs		4
Type of connection		2- and 3-wire technology
Input circuit		PNP transistor
Type of / input voltages		DC
Inputs / switching level High / min	V	10
Input current / at the digital input • for signal <1> / minimum • at signal <0> / maximum	mA	6
	mA	1.5
Inputs • sensor supply using AS-Interface • socket assignment • PIN 1 • PIN 2 • PIN 3 • PIN 4 • PIN 5		short-circuit and overload resistant sensor supply L+ data input II sensor supply L- data input I ground terminal
Design of the pin assignment / of the inputs		Y-II assignment
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 • socket 2 • socket 3 • socket 4		PIN 4 = IN1 (D0), PIN 2 = IN2 (D1) PIN 4 = IN2 (D1) PIN 4 = IN3 (D2) , PIN 2 = IN4 (D3) PIN 4 = IN4 (D3)

- socket 5
- socket 6
- socket 7
- socket 8

not assigned (closed)

not assigned (closed)

not assigned (closed)

not assigned (closed)

Ambient conditions:

Ambient temperature

- during operating
- during storage

°C -25 ... +85

°C -40 ... +85

Protection class IP

IP65

Status display:

Status display / display of I/Os

yellow LED

Status display / display of Uaux

not required

Status display / display of AS-Interface/diagnostics

green/red LED

Mechanical design:

Width

mm 60

Height

mm 152

Depth

mm 29

Mounting type

standard rail mounting/wall mounting using mounting plate for K60 compact module

Certificates/approvals:

AS-Interface certificate

yes (or requested for in case of new units)

Approvals

UL, CSA, shipbuilding (or requested for in case of new units)

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



Shipping Approval



other

[Confirmation](#)

[Declaration of
Conformity](#)

[other](#)

[Environmental
Confirmations](#)

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

CAX-Online-Generator

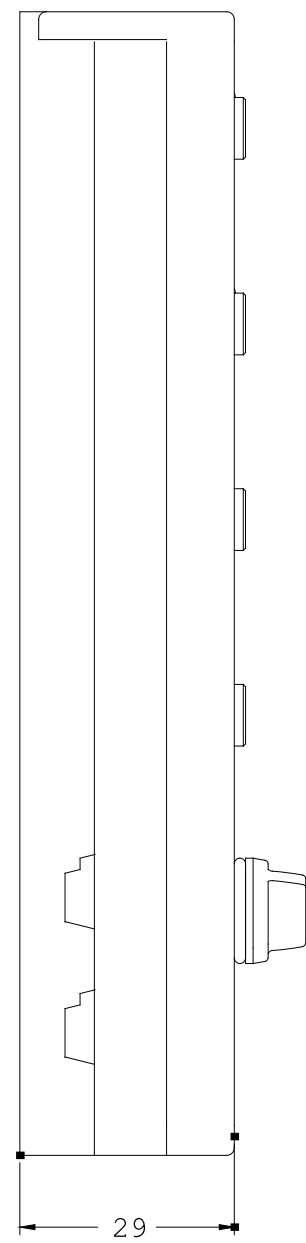
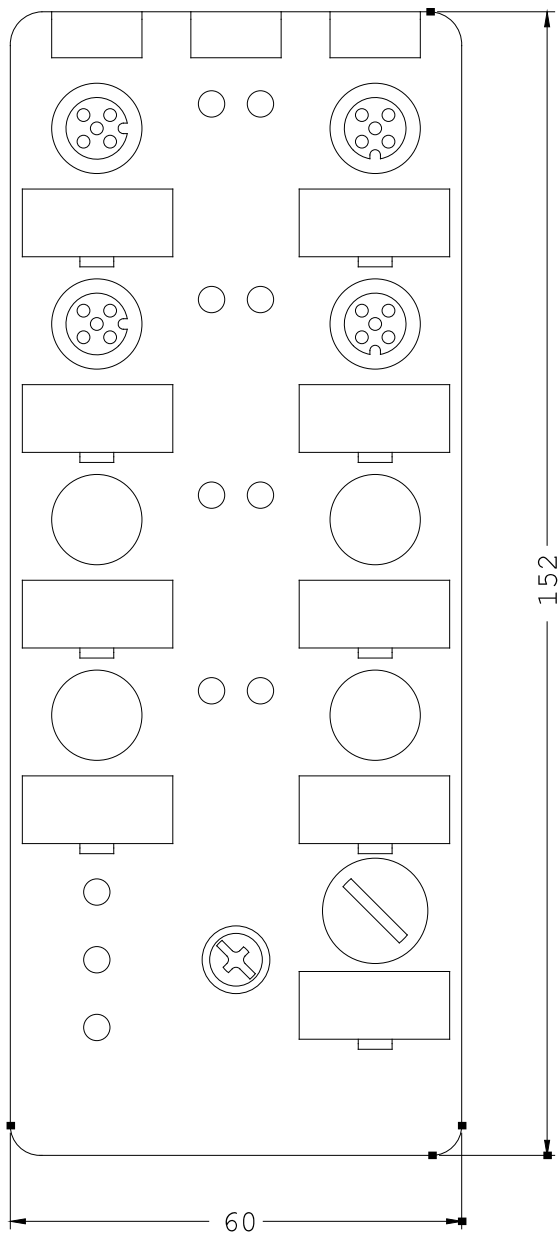
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK1200-0CQ05-0AA3/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1200-0CQ05-0AA3



last change:

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