

AS-Interface module F90, digital 4 DI/4 DQ, IP20 4 x inputs for 3-wire sensor 4 x output, 1 A, 24 V DC maximal 6 A for all outputs
Connection via screw terminals Width 90 mm



General technical data

design of the product		F90 module - I/O modules for operation in the control cabinet, IP20
Type		4 inputs / 4 outputs
design of the slave type		standard slave
I/O configuration		7
ID/ID2 code		0/F
type of electrical connection of the inputs and outputs		screw-type terminals
AS interface total current input max	mA	270
operating voltage according to AS-Interface specification	V	26.5 ... 31.6
Addressing		possible using integrated addressing socket
Watchdog		built-in
Note 1		An external additional supply (AUX POWER) of 20 to 30 V DC is required for the supply of the output circuits. The additional supply must comply with VDE 0106 (PELV), protection class III.

Sensor supply

type of voltage supply for sensor supply		using AS-Interface
property of the sensor supply short-circuit and overload resistant		Yes
ampacity of the sensor supply for all inputs at ambient temperature 40 °C	mA	200

Inputs

number of digital inputs		4
type of connection technology		2- and 3-conductor PNP transistor
Input circuit		PNP transistor
type of voltage of the input voltages		DC
input current at digital input		
• for signal <1> minimum	mA	5
• with signal <0> maximum	mA	1.5
Inputs		
• switching level High min	V	10
• sensor supply using AS-Interface		short-circuit and overload resistant
• connection sensors		2- and 3-conductor technology

Outputs

number of digital outputs		4
type of voltage of output voltages		DC
Outputs external power supply 24 V DC		using screw-type terminals
output current at digital output for signal <1> rated value	A	1
type of switching output		solid state
Outputs total current of all outputs	A	4
property of the output short-circuit proof		Yes
Outputs		

• short-circuit protection • induction protection		built-in built-in
Status display • display of I/Os • display of AS-Interface/diagnostics		yellow LEDs green/red dual LED
Assignment of data bits • D0 • D1 • D2 • D3		IN1/OUT1 IN2/OUT2 IN3/OUT3 IN4/OUT4
Ambient conditions		
ambient temperature • during operation • during storage	°C °C	-25 ... +70 -40 ... +85
protection class IP		IP20
Mechanical data		
width	mm	90
height	mm	75
depth	mm	37
fastening method		35 mm standard rail mounting
Certificates/ approvals		
General Product Approval		EMV



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Marine / Shipping	other	Environment
 	Confirmation	Miscellaneous Environmental Confirmations

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=3RG9002-0DB00 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RG9002-0DB00 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RG9002-0DB00 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RG9002-0DB00&lang=en

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