SIEMENS

Data sheet   **3RG9004-0DB00**

Figure similar

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 Combicon Width 90 mm Combicon connector set 3RX9810-0AA00 must be ordered .
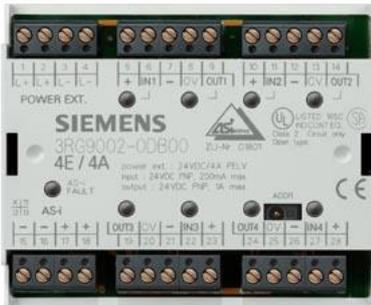
General technical data

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		combicon connection
AS interface total current input max	mA	270
operating voltage according to AS-Interface spezification	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 Combicon plug connector
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

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Outputs			
● short-ciruit protection			built-in
● induction protection			built-in
Status display			
● display of I/Os			yellow LEDs
● display of AS-Interface/diagnostics			green/red dual LED
Assignment of data bits			
● D0			IN1/OUT1
● D1			IN2/OUT2
● D2			IN3/OUT3
● D3			IN4/OUT4

Ambient conditions			
ambient temperature			
● during operation	°C		-25 ... +70
● during storage	°C		-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	Maritime application

CE EG-Konf. UKCA UL EAC KC PRS

other		Environment	

产品合格 QC PASS   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=3RG9004-0DB00

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RG9004-0DB00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RG9004-0DB00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RG9004-0DB00&lang=en

last modified: 4/2/2025