

ACTUATOR SENSOR INTERFACE F90 4I/4O
APPLICATION MODULE, IP20, 4X1 INPUT 200mA
PNP, 4X1 OUTPUT ELECTRONICS DC 24V, 2A
COMBICON STRIPS WIDTH 90MM COMBICON
CONNECTOR SET 3RX9810-0AA00 TO BE ORDERED
SEPARATELY



Figure similar

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 power 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		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	2
Type of switching output		solid state
Outputs total current of all outputs	A	6
Property of the output Short-circuit proof		Yes
Outputs		
• short-circuit 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
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Mechanical data:

Width	mm	90
Height	mm	75
Depth	mm	37
Mounting type		35 mm standard rail mounting

Certificates/ approvals:

AS-Interface certificate		yes
Approvals		UL, CSA, shipbuilding

General Product Approval	Declaration of Conformity	Shipping Approval
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Shipping Approval	other
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[Environmental Confirmations](#)

[Confirmation](#)

[Miscellaneous](#)

Further information

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

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

Industry Mall (Online ordering system)

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

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RG9004-0DA00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RG9004-0DA00>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RG9004-0DA00&lang=en

last modified:

06/05/2017