

AS-INTERFACE MODULE 4I/4O, F90 4X1 INPUT, PNP  
 4X1 OUTPUT ELECTRON. DC 24V,2A SCREW  
 TERMINALS FOR IN-/OUTPUTS SUPPLY VIA 2X  
 SCREW TERMINALS



Figure similar

General technical data:		
<b>Design of the product</b>		F90 module - I/O modules for operation in the control cabinet, IP20
<b>Type</b>		4 inputs / 4 outputs
<b>Design of the slave type</b>		standard slave
<b>I/O configuration</b>		7
<b>ID/ID2 code</b>		0/F
<b>Type of electrical connection of the inputs and outputs</b>		screw-type terminals
<b>AS interface total current input max</b>	mA	30
operating voltage according to AS-Interface specification	V	26.5 ... 31.6
<b>Addressing</b>		possible using integrated addressing socket
<b>Watchdog</b>		built-in
<b>Note 1</b>		The module has four floating inputs and four floating switching outputs. An external additional supply of 20 to 30 V DC according to VDE 0106 (PELV) protection class III is required for the supply of the input and output circuits.
<b>Note 2</b>		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:		
<b>Type of voltage supply for power supply</b>		via AUX POWER
<b>Property of the sensor supply Short-circuit and overload resistant</b>		Yes

Ampacity of the sensor supply for all inputs at ambient temperature 40 °C	mA	200
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### Inputs:

Number of digital inputs		4
Type of connection		2- and 3-conductor PNP transistor, floating
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	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

### Mechanical data:

Width	mm	90
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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	Shipping Approval
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Shipping Approval	other
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[Declaration of Conformity](#)

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other
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[other](#)

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<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=3RG90020DC00>

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

<http://support.automation.siemens.com/WW/view/en/3RG90020DC00/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RG90020DC00&lang=en>

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