



Climatix™

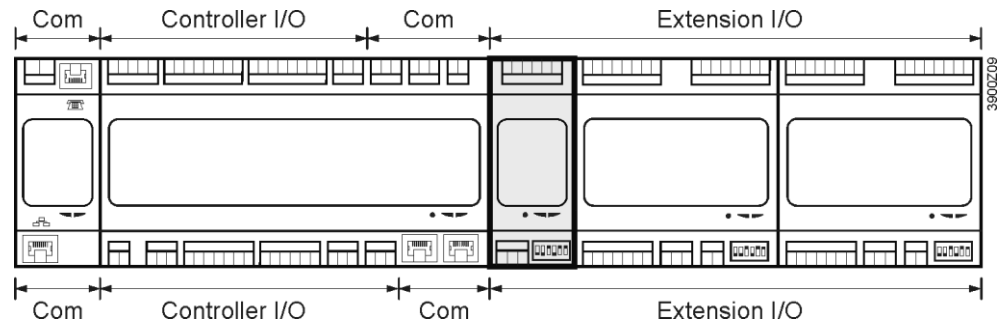
Climatix extension module 6 I/Os

POL925.00/XXX

The POL925.00/XXX extension module extends the I/O numbers of Climatix 600 controllers. It is part of the Climatix product range (refer to Data Sheet 3900 and Mounting Instructions M3910).

The extension module offers the following features:

- Power supply AC 24 V or DC 24 V
- 4 digital inputs for potential-free contacts
- 2 digital inputs galvanically isolated for AC 115/230 V
- Peripheral bus interface for local/remote extension I/Os



Disposal



The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic garbage.

- Dispose of the devices through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Technical data

Power supply

Operating voltage	AC 24 V ± 20%; DC 24 V ± 10%
Frequency	45...65 Hz
Max. AC-Current consumption	0.15 A
Max. DC-Current consumption	0.065 A
Connection	Peripheral bus

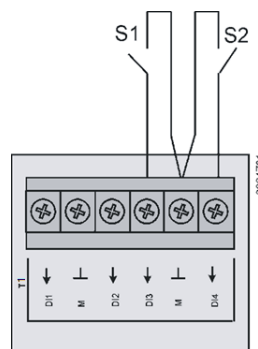
Power distribution

Max. pass through current	3.85 A at AC 24 V 3.935 A at DC 24 V
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Digital inputs

D1...D4 (T1)

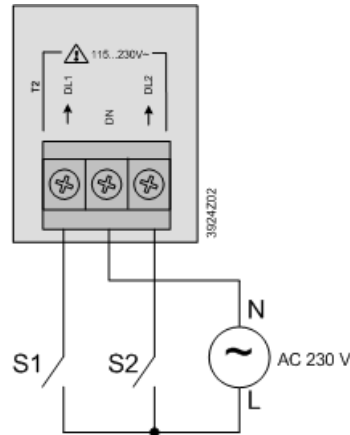
0/1 digital signal(binary)	For potential-free contacts
Sampling voltage / current	DC 24 V / 8 mA
Contact resistance	Max.200 Ω (closed) Min. 50 kΩ (open)
Delay	10 ms
Pulse frequency	Max. 30 Hz



Connecting floating contacts

Digital input
DL1, DL2 (T2)

0/1 digital signal (binary)	Galvanically isolated contact
Nominal voltage	AC 115...230 V
Frequency range	45...65 Hz
Sample current	3 mA at AC 230 V
Delay	100 ms
Pulse frequency	Max. 5 Hz



Connecting a AC 230 V signal to a galvanically isolated digital inputs

Connection terminals

Optional plugs for IO signals	Phoenix FKCVW 2,5 / x-ST Phoenix FKCT 2,5 / x-ST Phoenix MVSTBW 2,5 / x-ST
Solid wire	0.5...2.5 mm ²
Stranded wire (twisted and with ferrule)	0.5...1.5 mm ²
Cable lengths	In compliance with load, local regulations and installation documents

Peripheral bus

Power supply	U _{eff} = AC 24 V ± 20%, f _{main} = 45...65 Hz or U = DC 24 V ± 10%, no internal fuse (680 Ω / 120 Ω +1 nF / 680 Ω)
Bus termination selectable	
Solid wire	0.2...1.0 mm ²
Stranded wire (twisted and with ferrule)	0.2...1.0 mm ²
Cable lengths	Max. 30 m
Addressing	DIP switch 1...5
Termination	DIP switch 6

Environmental conditions

Operation	IEC 60721-3-3 class 3K5
Temperature	-40...70 °C
Humidity	<90% r.h. (non-condensing)
Atmospheric pressure	Min. 700 hPa, corresponding to Max. 3,000 m above sea level
Transport	IEC 60721-3-2 class 2K3/2K4
Temperature	-40...70 °C
Humidity	<95% r.h. (non-condensing)
Atmospheric pressure	Min. 260 hPa, corresponding to Max. 10,000 m above sea level

Protection

Degree of protection	IP20 (EN 60529)
Safety class	Suitable for use in plants with safety

Standards

Product standard	EN 60730-1 Automatic electrical controls for household and similar use
Electromagnetic compatibility (applications)	For use in residential, commerce, light-industrial and industrial environments.
EU conformity (CE)	CB1T3920xx *)
RCM conformity (EMC)	CB1T3909en_C1
Listings	UL916, UL873 http://database.ul.com/ CSA Class 4812 http://www.csagroup.org

Environmental compatibility

The product environmental declaration CB1E3920en contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

*) The document can be downloaded from <http://siemens.com/bt/download>.

General data

Dimensions of controller	45 x 110 x 75 mm
Weight excl. packaging	93 g
Base	Plastic, pigeon-blue RAL 5014
Housing	Plastic, light-grey RAL 7035

Status of LEDs

The status of BSP LED is defined as follows:

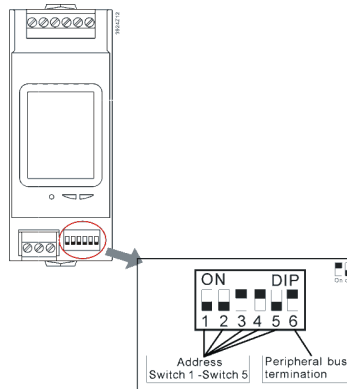
Status	Meaning
Red flashing at 2 Hz	BSP error or slave address error
Green on	BSP running

The status of BUS LED is defined as follows:

Status	Meaning
Red on	Communication error
Green on	Communication running
Green on and Red on (Yellow)	Communication running but parameter <u>not</u> successfully configured

DIP switch

The extension module is equipped with DIP switch to communicate with the controller. Switch 1, 2, 3, 4, and 5 are configurable to set the slave address, while switch 6 serves as peripheral bus termination. If the extension module works as the termination in the network, switch 6 must be set to ON.



The order of bit switch is from 5 to 1. The lowest bit is 5 while the highest bit is 1.
Max. 31 slave addresses can be configured as follows:

DIP Switch configuration of Extension Module							
No.	Schematics	No.	Schematics	No.	Switch 5	No.	Schematics
1		9		17		25	
2		10		18		26	
3		11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	
8		16		24			

Note



The same address of extension module must be set respectively in the application program of the controller. 0 cannot be set as the slave address.

Ordering data

Extension module 6 I/Os POL925.00/STD

**Accessories
(available on request)**

Connector set (spring cage, cable top entry) POL092.56/STD

- 1 x Phoenix FKCT 2,5/3-ST GY7035
- 1 x Phoenix FKCT 2,5/6-ST GY7035
- 1 x Phoenix ZEC 1,0 / 4-LPV-3,5 GY35AUC2C11

Connector set (spring cage, cable side entry)
 1 x Phoenix FKCVW 2,5/3-ST GY7035
 1 x Phoenix FKCVW 2,5/6-ST GY7035
 1 x Phoenix ZEC 1,0 / 4-LPV-3,5 GY35AUC2C11

Connector set (screw, cable side entry) POL092.55/STD

- 1 x Phoenix MVSTBW 2,5/3-ST GY7035
- 1 x Phoenix MVSTBW 2,5/6-ST GY7035
- 1 x Phoenix ZEC 1,0 / 4-LPV-3,5 GY35AUC2C11

Board-to-wire connector POL002.43/STD
 2 x Phoenix ZEC 1,0 / 4-ST-3,5 GY35AUC1R1,4 50 pcs

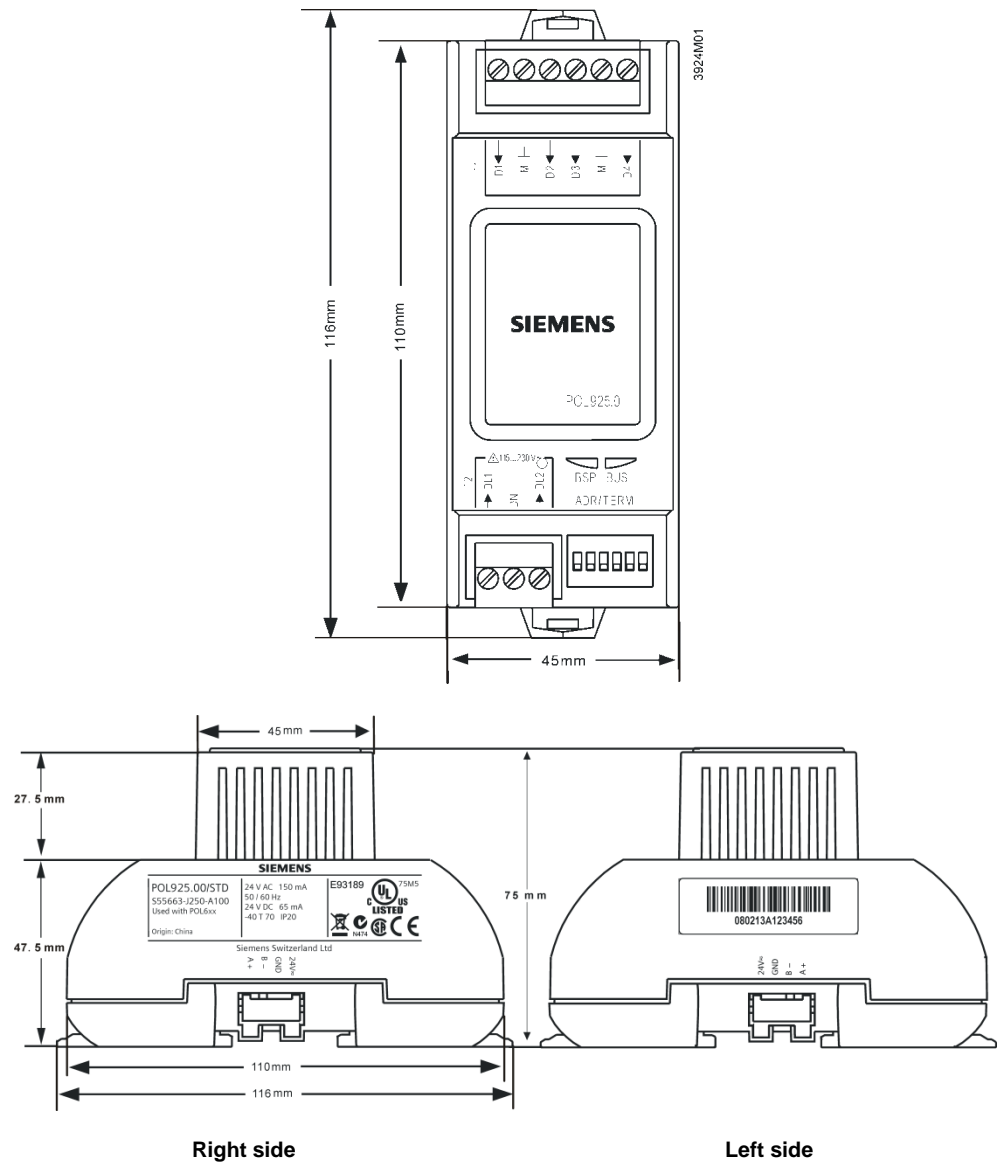
Engineering notes



To ensure protection against accidental contact with relay connections carrying voltages above 42 V_{eff}, the extension module must be installed in an enclosure (preferably a control panel). It must be impossible to open the enclosure without the aid of a key or tool.

AC 230 V cables must be double-insulated against safety extra low-voltage (SELV) cables.

Dimensions



Published by:
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www.siemens.com/buildingtechnologies

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