

IN.13

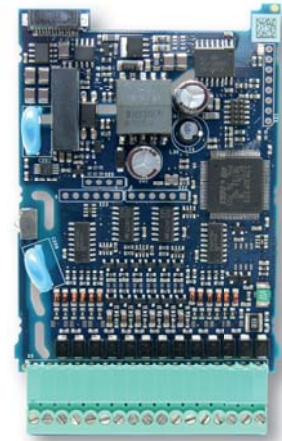
2x INPUT FOR IRC, UP / DW



INPUT COUNTER / FREQUENCY - IRC, UP / DW

UQC Contact, PNP, NPN
< 1 MHz

Sensor excitation
5 / 10 / 12 / 24 VDC, < 200 mA



CARD SETTINGS



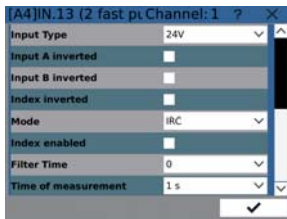
The following parameters are edited in the setting


Select the **Position of the card** to be set. Use buttons ◀ ▶ to scroll among the fitted cards.

Type of the card fitted in the specified position.

Data transfer **priority** of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◀ ◀◀ ▶▶ ▶ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button  is used to navigate to the settings of the selected channel.

Input type	UQC Contact ▶ 5 V ▶ 10 V ▶ 12 V ▶ 24 V ▶ 30 V
Inverted	<input checked="" type="checkbox"/> input inversion <input type="checkbox"/> without change
Edge	rising ▶ falling ▶ both edge selection (for counter reaction)
Filter time	100 μs ▶ 200 μs ▶ 500 μs ▶ 1 ms ▶ 2 ms ▶ 5 ms ▶ 10 ms ▶ 20 ms ▶ 50 ms ▶ 100 ms ▶ 200 ms ▶ 500 ms ▶ 1 s ▶ 2 s ▶ 5 s ▶ 10 s ▶ 20 s ▶ 50 s ▶ 1 min ▶ 2 min ▶ 5 min ▶ 10 min Setting determines how long the input pulse must be to prevent its filtration.
Measur. time	frequency measurement counts number of pulses within this time
Count down	<input checked="" type="checkbox"/> counter counts downwards <input type="checkbox"/> counter counts upwards
Preset	signal Preset sets contents of the counter to this value
Counter scale	constant, which re-multiplies the value of the counter (for conversion to a physical value)
Frequency scale	constant, which re-multiplies the value of the frequency (for conversion to a physical value)
Offset frequency	offset of the beginning of the measuring range

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the recorder is disconnected from the power supply!

1. Remove the recorder's back cover and break off the plugs covering the position where you intend to insert the new card. It is recommended to place analogue cards into faster slots in column „A“ (Speed of the bus: Slot „A“ 1 ms, Slot „B“ 2 ms).
2. Remove the card from its shipping container and from the ESD packaging and slide it carefully into the selected slot until you feel a gentle click
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

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TECHNICAL DATA

INPUTS

Number	2	
UQC	Input	on contact, PNP, NPN 5 V, 10 V, 12 V, 24 V, 30 V
	Input frequency	0,1 Hz...1 MHz

TECHNICAL SPECIFICATION

TC	50 ppm / °C
Accuracy	±0,05 % of range (Frequency)
Overload capacity	10x (t < 100 ms), 2x
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm ²
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input / Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

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CONNECTION

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ORDER CODE

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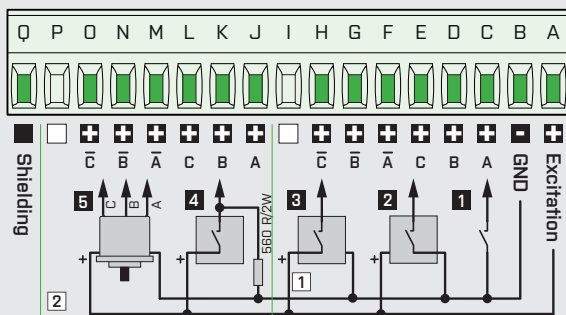
Specifications

Used only for customised versions



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- 1 contact
- 2 2-wire sensors, NPN NO
- 3 3-wire sensors, PNP NO
- 4 3-wire sensors, PNP NO
- 5 IRC sensors, line/NPN/PNP



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