



Features

- ✓ 2 counters
- ✓ Count depth 32 bit (sign-allocated ± 231)
- ✓ Up to 1 kHz counting frequency per counter
- ✓ 24 V voltage supply for counter
- ✓ 9 bytes of input data (count and status)
- ✓ 10 bytes of output data (preset count and control functions)

Counter Economy, 24V, 32 bit, 1 kHz 2x

Counters are used to detect pulses that are faster than a controller's cycles, i.e., signals that the controller will be unable to detect properly and that therefore need to be pre-processed.

The counter module records the edges of 24 V signals as pulses. The pulses are counted and the current count value is always available to the PLC.

The counting function can be enabled by PLC control commands.

The counter value can be preassigned or reset by the PLC

PLC control functions

counter release

Reset count

Load counter value

Change counting direction

Note: Individual modules cannot be combined with IO systems from other manufacturers.

General information

Order number	600-300-1AB01
Article name	2x Counter Economy 24 V, 1 KHz, 32 bit
Scope of delivery	2x Counter Economy 24 V, 1 KHz, 32 bit
Dimensions (DxWxH)	110 x 14 x 73 mm

Weight	Approx. 70 g
Input voltage	24 V DC
Power dissipation	Max. 0.5 W
Input characteristic curve	Type 2, EN 61131-2
Number of counters	2
Counter bit depth	32 bit, sign allocated +/- 231
Counting frequency per channel	Max. 1 kHz, 1x evaluation, rising edges
Counter functions	Forwards/backwards, Load count, Reset count
Hot-swap capable	Yes

Electrical isolation

from the backplane bus	Yes
Between the channels	No

Current draw

External	Max. 0 mA
Internal	Max. 22 mA
Internal	Max. 22 mA

Ambient conditions

Ambient temperature	0 °C ... +60 °C
Transport and storage temperature	-20 °C ... +80 °C
Relative air humidity	95 % r H without condensation
Protection rating	IP 20
Certifications	CE, UL

UL

Surrounding Air Temperature	0 °C ... +60°C
Pollution degree	2

CE

Noise immunity	DIN EN 61000-6-2 "EMC Immunity"
Interference emission	DIN EN 61000-6-4 "EMC Emission"
Vibration and shock resistance	DIN EN 60068-2-6:2008 „Vibration“, DIN EN 60068-2-27:2010 „Shock“

