

Adding counters CCES

Technical data

Function:

The electric adding counter CCES can be used in combination with a proximity sensor to count the number of switching cycles performed by a cylinder.

Recommended proximity sensors
SME/SMT → 2

Features:

- 8-digit LCD display
- Own power supply
- Designed for front panel mounting
- Connection via terminal strip
- Reset button



| General technical data | | |
|-------------------------------|--------|---|
| Constructional design | | Electric adding counter with battery |
| Type of mounting | | Front panel mounting |
| Power supply | | Lithium battery (nominal value retention 7 years) |
| Display | | 8-digit |
| Reset method | | Pushbutton or electric signal |
| Min. pulse length for drive | [ms] | 15 |
| Min. pulse length for reset | [ms] | 15 |
| Product weight | [g] | 30 |
| Electrical data | | |
| Lower threshold value | [V DC] | < 0.7 |
| Upper threshold value | [V DC] | 5 ... 30 |
| Clock pulse input | | Programmable |
| Clock pulse input setting | | Negative edge 30 Hz |
| Max. counting rate | [kHz] | 7.5 |
| Max. attenuated counting rate | [Hz] | 30 |
| Materials | | |
| Housing | | PC |
| Note on materials | | RoHS-compliant |

| Operating and environmental conditions | | |
|--|------|-------------|
| Ambient temperature | [°C] | -10 ... +50 |
| Corrosion resistance class CRC ¹⁾ | | 2 |

1) Corrosion resistance class 2 as per Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

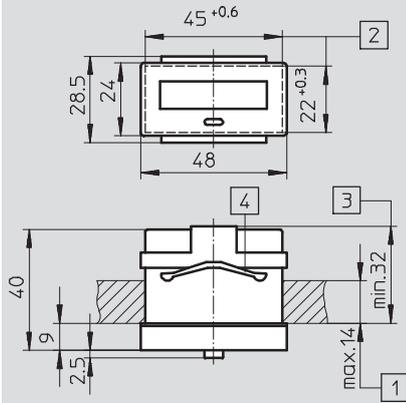
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Dimensions

Download CAD data → www.festo.com



-  - Note

Terminal cross section: max. 1 mm²,
min. 0.13 mm²

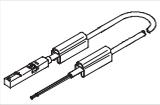
- 1 Front panel
- 2 Detailed drawing of the front panel
- 3 Installation depth
- 4 Clamping frame

Ordering data

| | Part No. | Type |
|----------------|----------|-------------|
| Adding counter | 549403 | CCES-P-C8-E |

Ordering data – Proximity sensor SME/SMT

Technical data → Internet: sme-8m, smt-8m

| | Switching element function | Switch output | Electrical connection | Cable length [m] | Part No. | Type |
|---|----------------------------|---------------------|-----------------------|------------------|----------|------------------------|
|  | N/O contact | Contacting, bipolar | Cable, 3-wire | 2.5 | 543862 | SME-8M-DS-24V-K-2,5-OE |
| | | PNP | Cable, 3-wire | 2.5 | 543867 | SMT-8M-PS-24V-K-2,5-OE |

-  - Note

Please note the following points:

- The abovementioned proximity sensor SME can be connected to the adding counter as a 2-wire switch without additional power supply.
- If using other proximity sensors, an additional power supply is needed
- and the clock pulse input of the adding counter must be reprogrammed from NPN to PNP.
- Screened cables must be used for cables longer than 3 m.
- The maximum permissible cable length is 30 m.