

Positioner

CMSH-S-VDE1-D-A-AL-N14-C1N12-HA

Part number: 8097421

FESTO



Data sheet

| Feature | Value |
|--|--|
| Design structure | Digital electropneumatic positioner |
| Mode of operation | double-acting |
| Design features | Safety position – pneumatic output 2 exhausted Safety position – pneumatic output 4 pressurised |
| Assembly position | Any |
| Mounting type | with accessories To VDI/VDE 3845 |
| Measuring method: displacement encoder | Potentiometer |
| Sensing range | 0 ... 115 deg |
| Display | LCD display, via software 90° rotatable |
| Setting options | Via display and buttons |
| Cycle time | 20 ms |
| Nominal altitude of use | ≤ 2000 m NHN |
| Overvoltage category | II |
| Operating pressure MPa | 0.14 ... 0.8 MPa |
| Working pressure | 1.4 ... 8 bar |
| Operating pressure | 20.3 ... 116 psi |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation not possible |
| Air flow rate at Δp = 6 bar | 270 l/min |
| Pneumatic connection | 1/4 NPT |
| Polarity protected | Yes |
| Connection resistance | 3 ... 80 kOhm |
| Analog inputs, signal range | 4 - 20 mA with HART |
| Analogue inputs, input impedance | 480 ohm at 20 mA |
| Analogue inputs, overload protection | <65 mA |
| Analog inputs, galvanic isolation | Yes |
| Input characteristics | 1x to IEC 61131-2, type 3 |
| Digital inputs, reverse polarity protection | Yes |
| Digital inputs, electrical isolation | Yes |
| Digital inputs, overload protection | 33 V |
| Electrical connection 1, function | Analogue input Digitaleingang External path/angle sensor |
| Electrical connection 1, connection type | Terminal strip |
| Electrical connection 1, connection technology | Cage clamp terminal |
| Electrical connection 1, number of pins/wires | 7 |
| Cable gland connection | 2x 1/2 NPT |
| Max. line length | 30 m for ext. position sensor Shielded |
| Ambient temperature | -40 ... 80 °C |
| Note on ambient temperature | Display: -30 - 80 °C |
| Storage temperature | -40 ... 80 °C |
| Climatic category | 1K5 to EN 60721 for storage 4K3 to EN 60721 for operation |
| Protection class | IP66 |

| Feature | Value |
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| | IP67 |
| Shock resistance | Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27 |
| Vibration resistance | Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 |
| Degree of contamination | 3 |
| Authorization | RCM Mark |
| CE symbol (see declaration of conformity) | according to EU-EMV guideline according to EU-Ex protection guideline (ATEX) in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Material housing | Aluminium, powder-coated |
| Material screen | PC |
| Material shaft | High alloy steel, non-corrosive |
| Material coupling | High alloy steel, non-corrosive |
| Material screws | High alloy steel, non-corrosive |
| Material seals | EPDM NBR VMQ |
| PWIS conformity | VDMA24364 zone III |
| Materials note | Conforms to RoHS |
| Product weight | 2,640 g |