

Positioner CMSH-S-VDE1-S-A-AL-G14-C1M20-HA

Part number: 8097412

FESTO



 General operating condition

Data sheet

| Feature | Value |
|--|---|
| Design | Digital, electropneumatic positioner |
| Mode of operation | Single-acting |
| Design characteristics | Safety pneumatic output 2 exhausted |
| Mounting position | Any |
| Type of mounting | With accessories in accordance with VDI/VDE 3845 |
| Functional principle of measuring system | Potentiometer |
| Sensing range | 0 deg ... 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 | 0.14 MPa ... 0.8 MPa |
| Operating pressure | 1.4 bar ... 8 bar |
| Operating pressure | 20.3 psi ... 116 psi |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Maximum particle size 40 µm |
| Air flow rate at Δp = 6 bar | 380 l/min |
| Pneumatic connection | G1/4 |
| Reverse polarity protection | Yes |
| Connection resistance | 3 kOhm ... 80 kOhm |
| digital input, signal range | 4 - 20 mA with HART |
| Analogue inputs, input impedance | 480 ohm at 20 mA |
| Analog inputs, overload protection | ≤ 65 mA |
| Analogue inputs, electrical isolation | Yes |
| Characteristic for inputs | 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 Digital input External path/angle sensor |
| Electrical connection 1, connection type | Terminal strip |
| Electrical connection 1, connector system | Spring-loaded terminal |
| Electrical connection 1, number of connections/cores | 7 |

| Feature | Value |
|--|--|
| Cable fitting | 2x M20x1.5 |
| Max. cable length | 30 m for external position sensor Shielded |
| Ambient temperature | -40 °C ... 80 °C |
| Note on ambient temperature | Display: -30 - 80 °C |
| Storage temperature | -40 °C ... 80 °C |
| Climatic category | 1K5 to EN 60721 for storage 4K3 to EN 60721 for operation |
| Degree of protection | IP66 IP67 |
| Shock resistance | Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 |
| Vibration resistance | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 |
| Pollution degree | 3 |
| CE mark (see declaration of conformity) | To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Material housing | Aluminium, powder-coated |
| Material screen | Makrolon® |
| Material shaft | High-alloy stainless steel |
| Material coupling | High-alloy stainless steel |
| Material screws | Galvanised steel |
| Material seals | EPDM NBR VMQ |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Note on materials | RoHS compliant |
| Product weight | 2640 g |