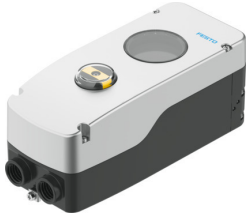


Positioner CMSH-

Part number: 8148076

FESTO



Data sheet

Feature	Value
Design	Digital, electropneumatic positioner
Mode of operation	Double-acting Single-acting
Design characteristics	Safety position - pneumatic outlets closed Safety pneumatic output 2 exhausted Safety pneumatic output 4 pressurised
Mounting position	optional
Type of mounting	With accessories To VDI/VDE 3845 To VDI/VDE 3847-2
Functional principle of measuring system	Potentiometer External
Sensing range	0 deg...115 deg
Display	LCD display, via software 90° rotatable
Cycle time	20 ms
Nominal altitude of use	<= 2000 m NHN
Max. input power P_i	See ATEX certificate See IECEx certificate
Max. input voltage U_i	See ATEX certificate See IECEx certificate
Max. input current I_i	See ATEX certificate See IECEx certificate
Effective internal capacitance C_i	See ATEX certificate See IECEx certificate
Effective internal inductivity L_i	See ATEX certificate See IECEx certificate
Overvoltage category	II
Operating pressure	0.14 MPa...0.8 MPa 1.4 bar...8 bar 20.3 psi...116 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Air flow rate at $\Delta p = 6$ bar	270 l/min...380 l/min
Note on air flow rate	Depending on additional specific accessories

Feature	Value
Pneumatic connection	G1/4 1/4 NPT
Pressure gauge connection	G1/8 1/8 NPT
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
digital output, signal range	4 - 20 mA
Analogue outputs, functional principle	Regulated power source with external supply
Analogue outputs, supply voltage	24 V
Analogue outputs, reverse polarity protection	yes
Analog outputs, short circuit current rating	yes
Analog outputs, overload protection	yes
Analogue outputs, galvanic isolation	yes
Characteristic for inputs	1x to IEC 61131-2, type 3 2x to IEC 61131-2, type 3
Digital inputs, reverse polarity protection	yes
Digital inputs, electrical isolation	yes
Digital inputs, overload protection	33 V
Digital outputs, supply voltage	8.2 V 24 V
Digital outputs, short circuit current rating	yes
Digital outputs, overload protection	Yes, <30 V
Digital outputs, electrical isolation	yes
Electrical connection 1, function	Analogue input Digital input External path/angle sensor
Cable fitting	2x 1/2 NPT 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
Approval	RCM trademark
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 instructions for EMC To UK EX instructions To UK RoHS instructions
Explosion protection certification outside the EU	EPL Db (BR) EPL Db (GB) EPL Db (IEC-EX) EPL Gb (BR) EPL Gb (GB) EPL Gb (IECEx)
Material housing	Aluminium, powder-coated

Feature	Value
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	2045 g...2820 g