

Positioner

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

Part number: 8097420

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	G1/4
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 M20x1,5
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
	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