

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
Operating pressure	1.4 ... 8 bar 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
Analogue inputs, signal range	4 - 20 mA with HART
Analogue inputs, input impedance	480 ohm at 20 mA
Analogue inputs, overload protection	<65 mA
Analogue 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
	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
Authorisation	RCM Mark
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive explosion protection (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