

10. Technical data

Rotation angle	min. 30° max 100°, option 270°
Stroke	5—130 mm (0.2" to 5.1")
Input signal	4—20 mA
Air supply	2—7 bar (30—105 psi) Free from oil, water and moisture. Filtered to min. 30 micron
Air delivery	350 nl/min (13.8 scfm)
Air consumption	<0.3 nl/min (0.01 scfm)
Air connections	1/4" G or NPT
Cable entry	3 x M20 or 1/2" NPT
Electrical connections	Screw terminals 2.5 mm ² /AWG14
Linearity	<1%
Repeatability	<0.5%
Hysteresis	<0.4%
Dead band	0.2—10% adjustable
Display	Graphic, view area 15 x 41mm (0.6 x 1.6")
UI	5 push buttons
Processor	16 bit, M 16C
CE directives	93/68EEC, 89/336/EEC, 92 /31/EEC
EMC	EN 50 081-2, EN 50 082-2
Voltage drop, Double board	<10.1 V => resistance 505 Ω
Voltage drop, Single board without HART	< 8.0 V => resistance 400 Ω
Voltage drop, Single board with HART	< 9.4 V => resistance 470 Ω
Vibrations	<1% up to 10 g at frequency 10 — 500 Hz
Enclosure	IP66/NEMA 4X
Material	Die-cast aluminium, A2/A4 fasteners
Surface treatment	Powder epoxy
Temperatur range	-30 to +80°C (-22 to 176° F)
Weight	PMV D3X, 1.4 kg (3 lbs). PMV D3E, 3 kg (6.6 lbs)
Alarm output	Transistor Ri 1 KΩ
Alarm Supply Voltage	8—28 V DC
Mounting position	Any

Mechanical switches

Type	SPDT
Size	Sub Sub miniature
Rating	3 A/125 V AC 2 A/30 V DC

**Namur sensors
(N32-V3-N)**

Type	Proximity DIN 19234 NAMUR
Load current	$1 \text{ mA} \leq I \leq 3 \text{ mA}$
Voltage range	5 - 25 V DC
Hysteresis	0.2 %
Temp	-20°C to 85°C (-4°F to 185°F)

Proximity switches

Type	SPDT
Rating	5 W/250 mA/30 V DC/125 V AC
Operating time	0.7 ms
Breakdown voltage	200 V DC
Contact resistance	0.1 Ω
Mechanical/electrical life	>50 x 10 ⁶ operations

**Slot Namur switches
(S32-S1N, S32-SN, S32-N)**

Type	Proximity DIN EN 60947-5-6
Load current	$1 \text{ mA} \leq I \leq 3 \text{ mA}$
Voltage	8 V DC
Hysteresis	0.2 %
Temp	-25°C to 85°C (-13°F to 185°F)

4 - 20 mA transmitter

Supply	9 - 28 V DC
Output	4 - 20 mA
Resolution	0.1 %
Linearity full span	+/-0.5 %
Output current limit	30 mA DC
Load impedance	800 Ω @ 24 V DC

Pos	Part no.	Description
1	D3-SP6	Cover incl.screws
2	D3-SP11	Internal cover incl.screws
3	P3-SP13	Cover plate incl. screws
4	P5-Sxx	Spindle adapter
5	D3-SP1	Block compl incl. cable, rubber seal, filter-plug
6	D3-SP9	Filter-plug incl. O-ring, filter
7	D3-SP8	Potentiometer compl incl. spring, holder, cable
8	D3-SP8-270	Potentiometer compl incl. spring, holder, cable, 270deg
9	D3-SP20	Shaft compl incl. gearwheel, friction clutch
10	D3-SP20-270	Shaft compl.incl. gearwheel, friction clutch, 270deg
11	D3-SP37	Pcb display assy
12	D3-SP80X	PCBs (terminal and processor)
13	D3-SP80H	PCBs (terminal and processor) HART
14	D3-SP35I	PCBs (terminal and processor) intrinsically safe
15	D3-SP35IH	PCBs (terminal and processor)intrinsically safe, HART
16	D3-SP35PF	PCBs (terminal and processor) Profibus/Fieldbus
17	P4A8	Arrow pointer
18	D3-SP/SCREW	Kit, bag with screws
19	D3-SP/SEAL	Kit, bag with O-rings, seals
20	D3-SP42	Cables and PC boards to pneumatic block
21	D3-SP34G	Gaugeblock G, complete
22	D3-SP34N	Gaugeblock N, complete
23	D3-AS38M	Transmitter board, Mechanical switches, assy +420
24	D3-AS38N	Transmitter board, Namur sensors, assy +420
25	D3-AS38P	Transmitter board, Proximity switches, assy +420
26	D3-AS38T	Transmitter board 4-20, assy
30	D3-SP6WC	Cover incl. screws, Worcester
31	D3-67	Silencer