

**Vert-X 28 - 11 ... 35V / 4 - 20mA / Single**

2831736621102

**Technical datas**

Mechanical version	6 mm shaft D-shape; IP65
Sensor principle	MH-C
Electrical angle	Electrical angle 360°
Power supply voltage	24 VDC
Output signal	4 mA to 20 mA
Output characteristics	Single, positive gradient CW
Electrical connection	Round cable, 3-pole
Length of wires/cable	1.0 m (cable)

**Electrical Datas**

Measuring range	°	0...360
Indep. linearity (typ.)	% of measuring range	±0.3
Max. hysteresis	°	0.1
Resolution	bit	12
Max. repeatability	°	0.1
Sample rate fast mode	kHz	(5)
Sample rate slow mode	kHz	1.66
System propagation delay fast mode	µs	(800)
System propagation delay slow mode	µs	4600
Max. temperature coefficient of output signal	ppm/K	100
MTTFd / MTBF		upon request
Power supply voltage (ohmic load at output = 0–0.5 kOhm)	VDC	16...35
Power supply voltage (ohmic load at output = 0–0.25 kOhm)	VDC	11...35
Current consumption without load (typ.) fast mode, per channel	mA	(19)
Current consumption without load (typ.) slow mode, per channel	mA	14
Max. capacitive load at output	nF	100
Reverse polarity protection of power supply		yes
Electrical connection		Round cable, 3-pole
Cross section of single wires	mm <sup>2</sup>	0.56 (AWG20)
Redundancy possible		no

**Mechanical Datas**

Mechanical range	°	360 (continuous)
Protection rating		IP54 / IP65
Max. starting torque at specified protection rating	Ncm	0.5 / 3
Max. rotating speed	rpm	120
Min. life	movements	50 Mio.
Max. permitted axial shaft load	N	20
Max. permitted radial shaft load	N	20
Operating & storage temperature (with cable)	°C	-40 ... +85
EN 60068-2-6, vibration (A <sub>max</sub> = 0.75 mm, f = 5–2,000 Hz)	g	20
EN 60068-2-27, shock	g	50

**Features**

- Compact dimensions
- Contactless measuring method
- Long life
- High measurement accuracy
- Elongated holes in mounting tabs for simple adjustment
- Full resolution and accuracy at programmed electrical angle

**Features MH-C**

- Linearity ±0.3%
- Resolution 12 bit
- Lower price than MH-C2

