Datasheet

Vert-X 37 - 11 ... 35V / 4 - 20mA / Single

3762736151402



Technical datas

Mechanical version	10 mm shaft D-shape, slotted; IP68 & IP69K
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 cable	1.0 m (cable)

Features

- Very robust design in sealed s-tainless steel housing
- Contactless measuring method
- Long life
- High measurement accuracy
- Can be used in harsh environ-ments (humidity, dampness, dust, vibrations, etc.)
- Full resolution and accuracy at programmed electrical angle

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, s
Cross section of single wires	mm²	0.56 (AWG20)
Redundancy possible		yes

Features MH-C

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

Mechanical Datas

Mechanical range	°	360 (continuous)
Protection rating		IP54 / IP68
Max. starting torque at specified protection rating	Ncm	0.5 / 6
Max. rotating speed	rpm	3000
Min. life	movements	360 Mio.
Max. permitted axial shaft load	N	250
Max. permitted radial shaft load	N	100
Operating & storage temperature	°C	-40 ... +85
EN 60068-2-6, vibration (Amax = 0.75 mm, f = 5–2,000 Hz)	g	20
EN 60068-2-27, shock	g	50

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Technical changes and errors are subject to change | Status: 2022-12-28

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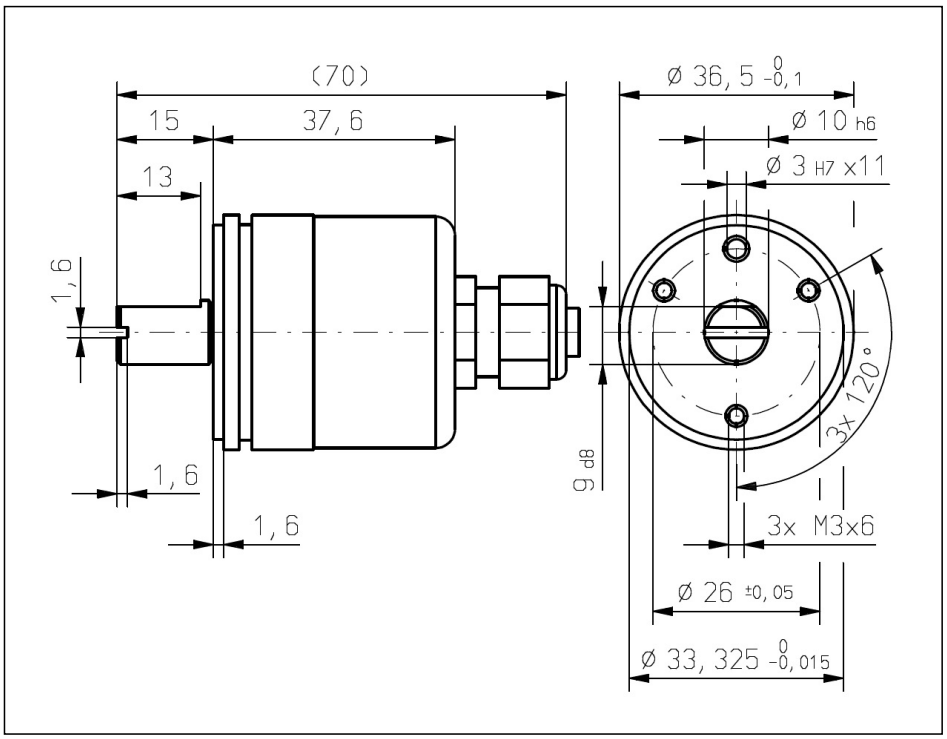


Standards

EN 55011, Emission (Cl. B)		
EN 61000-4-2, ESD (contact discharge / air discharge)	kV	±4 / ±8
EN 61000-4-3, Immission HF radiated (80–1000 MHz/1.4–2.7 GHz)	V/m	30
EN 61000-4-4, Burst (on all lines)	kV	±1
EN 61000-4-5, Surge (lines to ground)	kV	±1
EN 61000-4-6, Immission HF conducted (0.15–80 MHz)	Vemf	10
EN 61000-4-8, Immission magnetic field (50 Hz)	A/m	300
Insulation resistance (500 VDC, 1 bar, 2s)	GOhm	20
Dielectric strength (VAC, 50 Hz, 1 min, 1 bar)	kV	1

Options

Custom shaft design
Custom modification of housing
Custom cable
Sample rate in fast mode
Switch functions TTL (max. 2)
Special electrical angle between 30 and 360° (ex factory)



Accessories (incl.)

- 3x Fixation clamp
- 2x Slotted cylinder head screw M3x8

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