

提夫自控技术（上海）有限公司



Vert-X 28HD - 24V / 0.1 - 10V

Sensor principle		MH-C	MH-C2
Electrical data			
Measuring range	°	0...360	-
Indep. linearity	% of meas. 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 the output signal	ppm/°K	100	-
MTTFd / MTBF	years	185/185	-
Power supply voltage	VDC	10.8...35	-
Current consumption without load (typ.) fast mode	mA	(19)	-
Current consumption without load (typ.) slow mode	mA	14	-
Min. ohmic load at output	kOhm	10	-
Max. capacitive load at output	nF	100	-
Reverse polarity protection of power supply		yes	-
Electrical connection		Cable 3pole	-
Cross section of single wires	mm²	0.56 (AWG20)	-
Redundancy feasible		no	-
Electrical connection redundant		-	-
Cross section of single wires redundant	mm²	-	-
Mechanical data			
Mechanical range	°	360 (continuous)	-
Protection class		IP68 & IP69K	-
Max. starting torque at specified protection class	Ncm	6	-
Max. rotating speed	rpm	3000	-
Min. life	movements	360 Mio.	-
Max. permitted axial shaft load	N	100	-
Max. permitted radial shaft load	N	100	-
Operating & storage temperature	°C	-40...+85	-
IEC 68-2-6 Vibration (Amax = 0.75mm, f = 5...2000 Hz)	g	20	-
IEC 68-2-27 Shock	g	50	-
Standards			
EN 55022 class B, Emission radiated (30...230MHz)	dB(µV/m)	max. 30	-
EN 55022 class B, Emission radiated (230...1000MHz)	dB(µV/m)	max. 37	-
EN 61000-4-2, ESD (contact discharge / air discharge)	kV	±4 / ±8	-
EN 61000-4-3, Immision HF radiated (80...1000MHz)	V/m	100	-
EN 61000-4-3, Immision HF radiated (1.4...2GHz)	V/m	3	-
EN 61000-4-3, Immision HF radiated (2...2.7GHz)	V/m	1	-
EN 61000-4-4, Burst (on all lines)	kV	±1	-
EN 61000-4-5, Surge (lines to ground)	kV	±1	-
EN 61000-4-6, Immision HF conducted (0.15...80MHz)	Vemk	10	-
EN 61000-4-8, Immision magnetic field (50Hz)	A/m	300	-
IEC 60393-1 Insulation resistance (500VDC, 1bar, 2s)	GOhm	20	-
IEC 60393-1 Dielectric strength (VAC, 50Hz, 1min, 1bar)	kV	1	-

Applications

- Harvester
- Public transport
- Construction machines

Features

- Very high protection class IP68 & IP69K
- Very robust design
- Compact dimensions
- Contactless measuring method
- Long life
- High accuracy of measurement
- Simple adjustment with elongated holes
- Applications under harsh ambient conditions possible (humidity, dampness, dust, dirt, vibrations, etc.)
- Full resolution and accuracy at programmed electrical angle

Errors and omissions excepted. Subject to change without notice. State: 02.11.12

CONTELEC
A company of the Siedle-Group

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Vert-X 28HD - 24V / 0.1 - 10V
Ordering code

Output characteristics

Positive gradient CW
Positive gradient CCW

Standard
Optional

1
2

Output signal

0,1VDC...10VDC

Standard

1

Power supply voltage

24VDC

Standard

6

Electrical connection

1
9

Standard
Optional

Round cable 3pole
Special cable

Length of cable

02
06
10
99

Standard
Optional
Optional
Optional

1.0m
3.0m
5.0m
Special length

Vert-X

2

8

H

D

7

3

6

6

1

1

1

0

2

Electrical angle

36
xx
99

Standard
Optional
Optional

Electrical angle 360°
03 to 35; Declaration in 10° steps
Special angle

Sensor principle

7

MH-C

Mechanical version

28HD
28H9

Standard
Optional

6mm shaft D-shape; IP68 & IP69K - Heavy-duty
Special shaft

	MH-C	MH-C2
Custom shaft design	X	-
Custom cable	X	-
Sample rate in fast mode	X	-
Special characteristic curve	-	-
Special electrical angle within 30° to 360° (ex factory)	X	-

Options (on request)

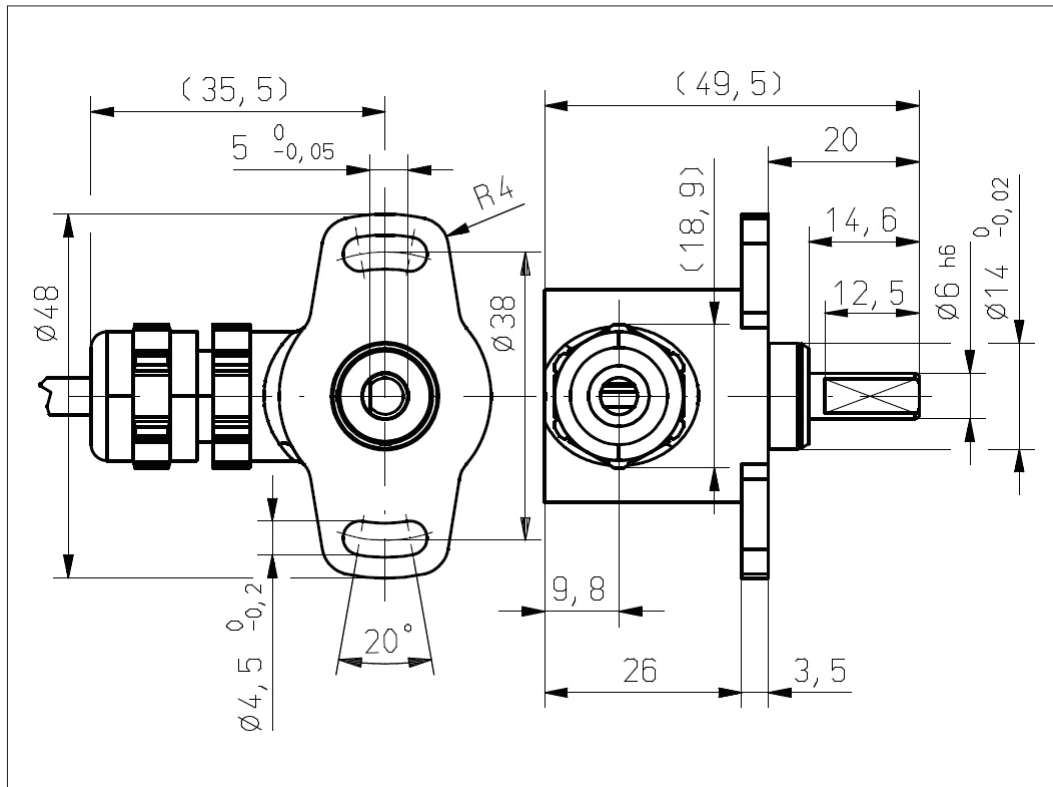
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Accessories (incl.)

- None



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