Datasheet

Vert-X 26 - 8 ... 35V / CANopen / Redundant

2631-83613CSQ6

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Technical datas

Mechanical version	Pilot diameter 32 mm; slide bearing
Shaft	6 mm shaft, D-shape
Accessories (incl.)	No accessories
Sensor principle	MH-C
Electrical angle	Electrical angle 360°
Power supply voltage	24 VDC
Output signal	CANopen Encoder Profile 406 (C2)
CAN characteristics	Redundant 1-bus/CAN high; CAN low
Electrical connection	Connector
Definition of the connector	AMP MQS, 6-pole

Features

- Wide range of electronic and mechanical modules
- Compatible with market standards
- Fully potted electronics with high-end resin (2-chamber system)
- Custom output characteristics
- Custom versions on request
- 5 V interface with output range of 2% to 98% operating voltage possible
- Contactless measuring method
- Full redundancy available
- E1 compliant design

Electrical Datas

Measuring range	°	0…360
Indep. linearity (typ.)	% of measuring range	±1
Max. hysteresis	°	0.2
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
Power supply voltage	VDC	8 ... 35
Reverse polarity protection of power supply		yes
Electrical connection		Connector
Redundancy possible		yes
Bus interface		ISO/DIS 11898-2
CANopen communication according to CiA		Standard DS-301 V 4.02
Device profile		DS-406, V 3.1, Enc. class C2
Default node ID (single)		16 (program. 1…127)
Default node IDs (redundant)		16 & 17 (program. 1…127)
Default bitrate	kBit/s	125

Mechanical Datas

Mechanical range	°	360 (continuous)
Protection rating		IP68 / IP69K
Max. starting torque at specified protection rating (slide bearing)	Ncm	3
Max. starting torque at specified protection rating (ball bearing)	Ncm	0.5
Max. rotating speed (slide bearing)	rpm	120
Max. rotating speed (ball bearing)	rpm	6000
Min. life (slide bearing)	movements	50 Mio.
Min. life (ball bearing)	movements	360 Mio.
Max. permitted axial shaft load (slide bearing/ball bearing)	N	10 / 30
Max. permitted radial shaft load (slide bearing/ball bearing)	N	10 / 40
Operating & storage temperature (5 V supply)	°C	-40…+125*
Operating & storage temperature (24 V supply)	°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

CONTELEC
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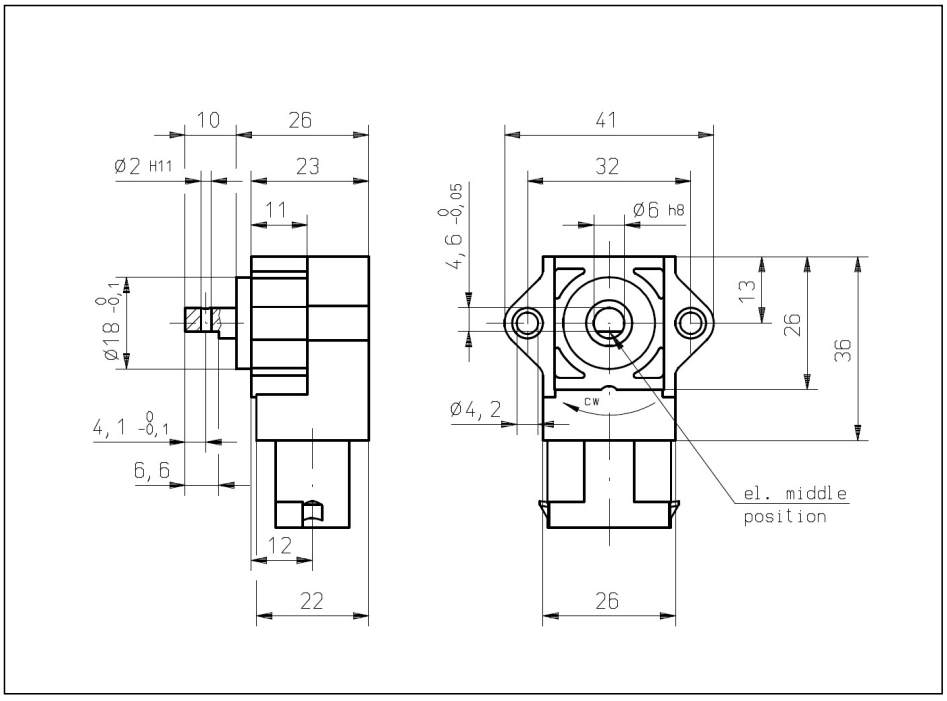
* +130°C/1h

Standards

EN 55011, Emission (Cl. B)		max. 30 (Kl. 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	100
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
EN 60393-1, Insulation resistance (500 VDC, 1 bar, 2s)	GOhm	20
EN 60393-1, Dielectric strength (VAC, 50 Hz, 1 min, 1 bar)	kV	4

Options

Custom shaft design
Sample rate in fast mode
Special electrical angle between 30 and 360° (ex factory)
Full redundancy available
Indep. linearity of ±0.3% measuring range



Vert-X 2631 / Vert-X 2641

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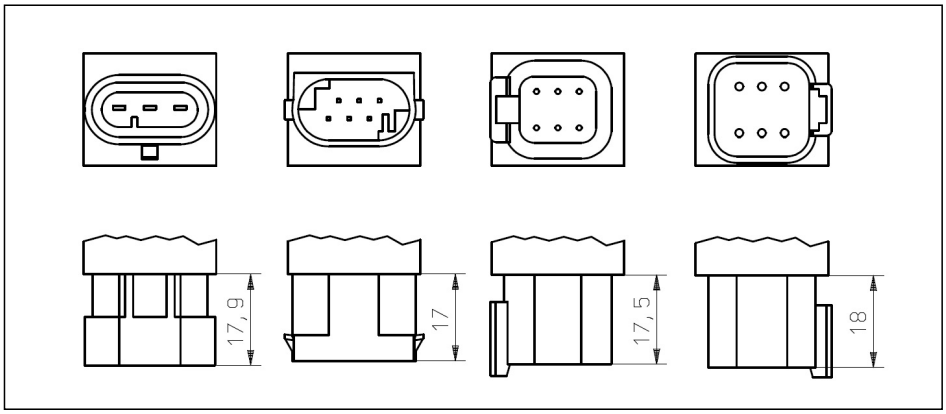

Connector

- AMP Superseal 3pol 1)
- AMP MQS 6pol 2)
- Deutsch DTM04-6P 3)
- Deutsch DT04-6P 4)

Counter Connector

- TE-Nr.: 282087-1 1)
- AMP-Nr.: 1-967616-1 2)
- Deutsch DTM06-6S 3)
- Deutsch DT06-6S 4)

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