

## Absolute-Encoder CMV58 - A

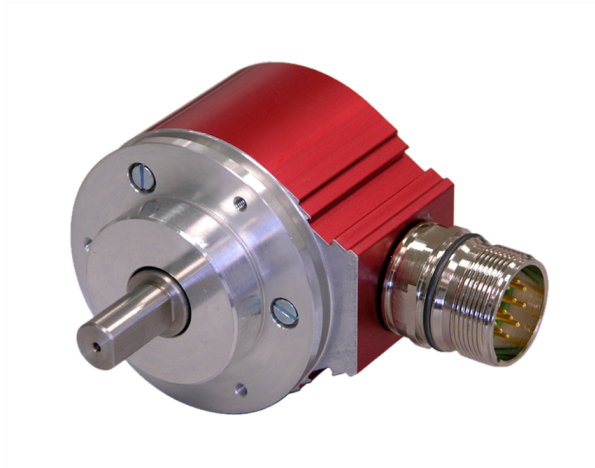
Ref.: K-CMV58-A-1

18.11.2013

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### Advantages

- \_ Current- or voltage output
- \_ Further interfaces available
- \_ Rugged standard solution
- \_ Short lead times
- \_ Small construction



### General Data

Supply	
- Supply voltage	12...30 VDC
Current consumption no load	<= 150 mA
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 24 Bit
Number of steps per revolution	<= 4096
Number of revolutions	<= 4096
Accuracy	$\pm 0,5^\circ$
Analog - Interface	
- Voltage/Current	programmable
- Resolution	12 Bit D/A converter
- Voltage output	-10...+10 VDC
- Load resistance (U)	$\geq 1 \text{ k}\Omega$
- Current output	0...24 mA
- Load resistance (I)	<= 500 Ohm
Cycle time	500 $\mu\text{s}$
Parameter/Function, changeable	Resolution
	Analog Voltage/Current
	Preset parameter
	Counting direction

Subject to change.

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### General Data continuation

Type of parametrization	programmable
Prgramming - Tool	TR-Soft: TRWinProg
External inputs	
- F/R	Count direction
- Preset	electronic adjustment
- Logic level	"0" < +2V, "1" = Supply
Maximum Speed, mechanically	<= 12000 1/min
Shaft load, axial/radial	<= 10 N, <= 20 N
Bearing life time	>= 3.9E+10 revolutions
Bearing life time - Parameter	
- Speed	6000 1/min
- Operating temperature	60 °C
- Shaft load, axial/radial	<= 5 N, <= 10 N
Point of origin, shaft load	at the shaft end
Angular acceleration	<= 10E+4 rad/s <sup>2</sup>
Moment of inertia, typically	1.3E-6 kg m <sup>2</sup>
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.3 kg

### Environmental conditions

Vibration	
- Specific value	<= 100 m/s <sup>2</sup>
- Sine	50...2000 Hz
Shock	
- Specific value	<= 1000 m/s <sup>2</sup>
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	0...+60 °C
- Optional	-20...+70 °C;
Storage temperature, dry	-30...+85 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65

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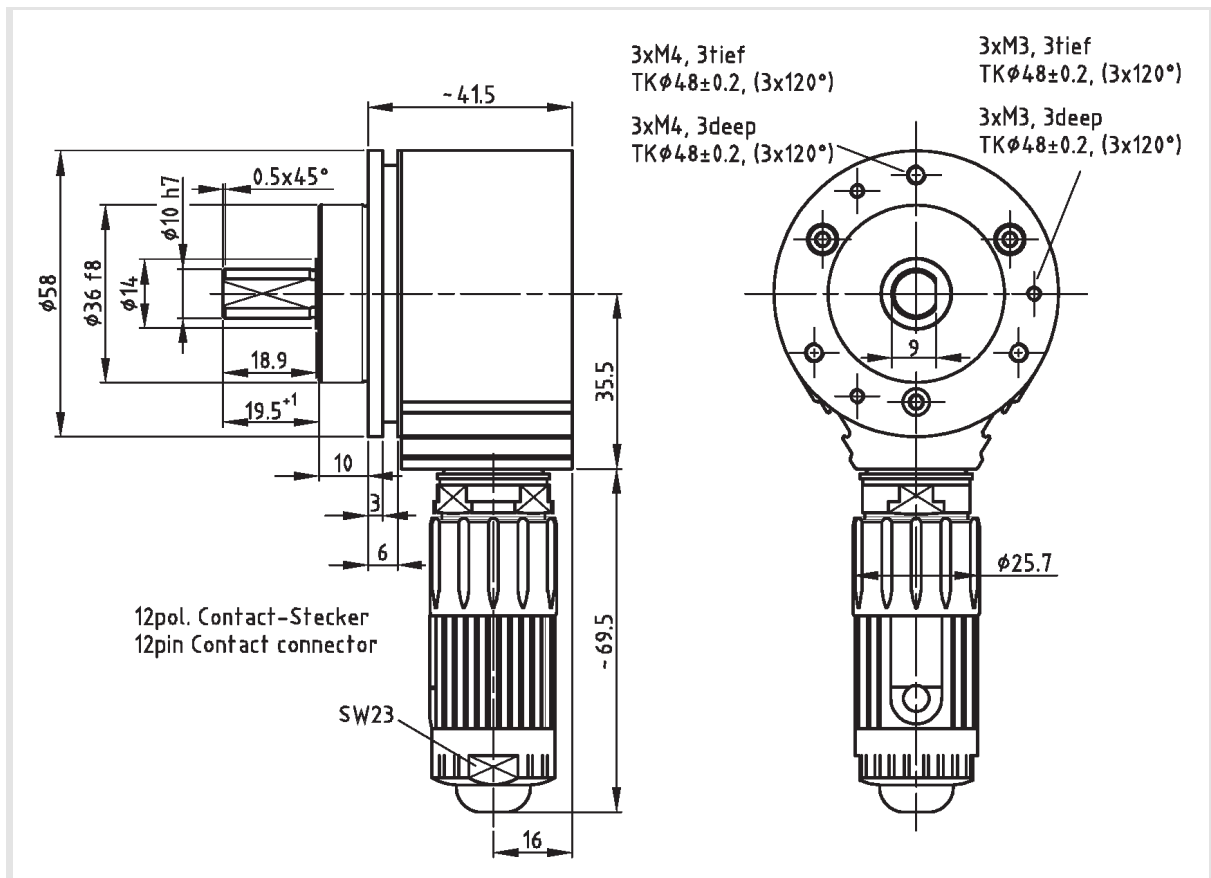
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## Dimensional drawing



## Suggested products

CMV58M*4096/256 ANA_I 50ZB6GL 4...20 mA Stecker 12 pol M23	CMV58M-00044
CMV58M*4096/256 ANA_U 36ZB10FL 0...10 V Stecker 12 pol M23	CMV58M-00055
CMV58S*4096/1 ANA_U 36ZB10FL Preset V/R Stecker 12 pol M23	CMV58S-00011
CMV58S*4096/1 ANA_I 36ZB10FL 4...20 mA Stecker 12 pol M23	CMV58S-00013

Subject to change.