

# Absolute-Encoder CMS58 - CO

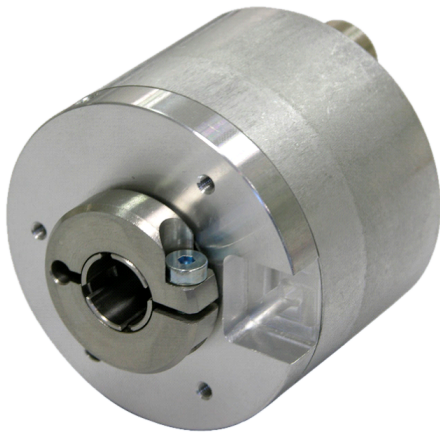
Ref.: K-CMS58-CO-1

18.11.2013

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## Advantages

- \_ Economical alternative
- \_ Further interfaces available
- \_ Rugged standard solution
- \_ Short lead times
- \_ Small construction



## General Data

Supply	
- Supply voltage	11...27 VDC
Current consumption no load	<= 150 mA
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 23 Bit
Number of steps per revolution	<= 2048
Number of revolutions	<= 4096
Accuracy	$\pm 1,0^\circ$
CANopen - Interface	
- CANopen	EN 50325-4
- Bus connection	ISO 11898-1, ISO 11898-2
- CAN Specification 2.0 A	11-Bit Identifier
- Device-Profile for Encoder	CiA DS406
- Layer Setting Services, LSS	CiA DS305
Transmission rate	
- Specific value	20, 125, 500, 1000 kbit/s
- Adjustability	by means of DIP-switches
Parameter/Function, changeable	Resolution
	Node-ID
	Preset parameter
	Transmission rate

Subject to change.

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## General Data continuation

	Counting direction
Type of parametrization	programmable
Prgramming - Tool	Fieldbus-Device
Maximum Speed, mechanically	$\leq 12000$ 1/min
Shaft load, axial/radial	Own mass
Bearing life time	$\geq 3.9E+10$ revolutions
Bearing life time - Parameter - Speed	6000 1/min
- Operating temperature	60 °C
Angular acceleration	$\leq 10E+4$ 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	$\leq 100$ m/s <sup>2</sup>
- Sine	50...2000 Hz
Shock	
- Specific value	$\leq 1000$ 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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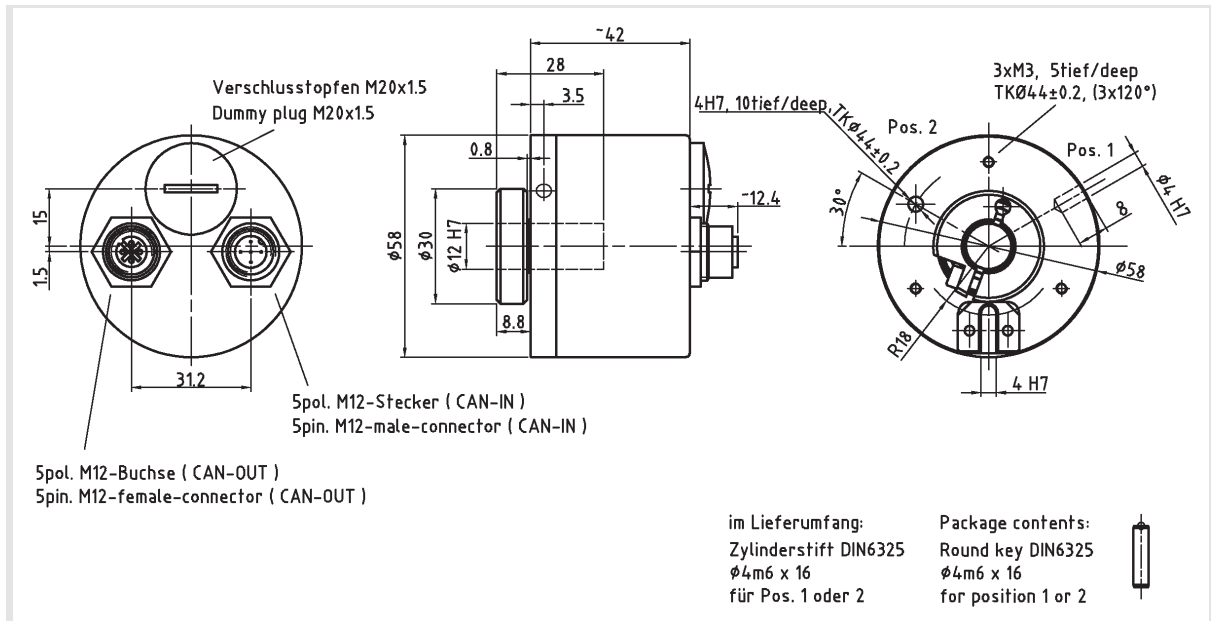
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## Dimensional drawing



## Suggested products

CMS58M\*2048/4096 CO 12H7  
2x 5 pol M12

CMS58M-00015

Subject to change.