

Encoders without bearings - absolute

Magnetic sensor bore max. $\varnothing 12$ mm

Magnetic single- or multiturn encoders / kit 12 bit ST / 18 bit MT

BMSK 58, BMMK 58 flexibel - MAGRES



BMMK 58 flexible kit

Features

- Encoder kit single- or multiturn / bus cover
- Magnetic sensing method
- Resolution: singleturn 12 bit, multiturn 18 bit
- Modular fieldbus interfaces
- High resistance to shock and vibrations
- CANopen®/DeviceNet/EtherCAT/EtherNet-IP
SAEJ1939/PROFINET/PoE/POWERLINK/Profibus
- Resolution and zero point programmable

Technical data - electrical ratings

Voltage supply	10...30 VDC
Consumption typ.	100 mA (24 VDC, w/o load)
Initializing time typ.	170 ms after power on
Interfaces	CANopen®, DeviceNet, EtherCAT, EtherNet/IP, PoE, Profibus-DPV0/V2, PROFINET, POWERLINK, SAE J1939
Steps per revolution	≤4096 / 12 bit
Absolute accuracy	±1 °
Device adress	Rotary switches in bus cover
Sensing method	Magnetic
Code	Binary
Code sequence	CW default, programmable
Diagnostic functions	Position or parameter error Multiturn sensing
Status indicator	DUO-LED integrated in bus cover
Programmable parameters	Steps per revolution Number of revolutions Preset Scaling Rotating direction
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-3
Approval	UL approval / E217823
BMSK 58	
Function	Singleturn
BMMK 58	
Function	Multiturn
Number of revolutions	≤262144 / 18 bit

Technical data - mechanical design

Size (flange)	ø58 mm
Shaft type	ø12 mm (magnet bore)
Protection DIN EN 60529	IP 67
Operating speed	≤12000 rpm (mechanical) ≤6000 rpm (electric)
Gap tolerance	≤0.3 mm axial ≤0.1 mm radial
Materials	Housing: steel Flange: aluminium Bus cover: zinc die-cast
Operating temperature	-20...+85 °C
Relative humidity	95 %
Resistance	DIN EN 60068-2-6 Vibration 30 g, 10-2000 Hz DIN EN 60068-2-27 Shock 200 g, 6 ms
Weight approx.	480 g
Connection	Bus cover

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Part number

Singleturn

BMSK 58S1N 12/00 12

				<u>Connection</u>
				D Complete encoder with bus cover / cable gland (w/o 246)
				G Basic encoder without bus cover
				E Complete encoder with bus cover, M12
				<u>Solid shaft</u>
			12	\varnothing 12 mm magnet bore
				<u>Resolution</u>
	12/00			12 bit singleturn
				<u>Voltage supply / signals</u>
24B	10...30 VDC			/ CANopen®
24D	10...30 VDC			/ DeviceNet
24P	10...30 VDC			/ Profibus-DPV0
24Q	10...30 VDC			/ Profibus-DPV2
246	10...30 VDC			/ EtherCAT
24I	10...30 VDC			/ EtherNet/IP
242	10...30 VDC			/ Power over EtherCAT*
24L	10...30 VDC			/ POWERLINK
24H	10...30 VDC			/ PROFINET
24J	10...30 VDC			/ SAEJ1939
24C	10...30 VDC			/ basic encoder

Multiturn

BMMK 58S1N 12

				<u>Connection</u>
				D Complete encoder with bus cover / cable gland (w/o 246)
				G Basic encoder without bus cover
				E Complete encoder with bus cover, M12
				<u>Solid shaft</u>
			12	\varnothing 12 mm magnet bore
				<u>Resolution</u>
	12/18			12/18 bit single-/multiturn (only CANopen)
	12/16			12/16 bit single-/multiturn
				<u>Voltage supply / signals</u>
24B	10...30 VDC			/ CANopen®
24D	10...30 VDC			/ DeviceNet
24P	10...30 VDC			/ Profibus-DPV0
24Q	10...30 VDC			/ Profibus-DPV2
246	10...30 VDC			/ EtherCAT
24I	10...30 VDC			/ EtherNet/IP
242	10...30 VDC			/ Power over EtherCAT*
24L	10...30 VDC			/ POWERLINK
24H	10...30 VDC			/ PROFINET
24J	10...30 VDC			/ SAEJ1939
24C	10...30 VDC			/ basic encoder

CD with file descriptions is not included in the delivery.
You may order them on CD as accessory under part number 10147362.

* Power over EtherCAT on request

Encoders without bearings - absolute

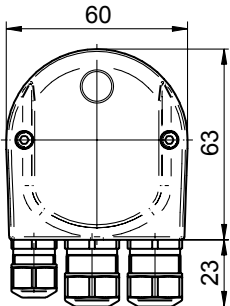
Magnetic sensor bore max. $\varnothing 12$ mm

Magnetic single- or multiturn encoders / kit 12 bit ST / 18 bit MT

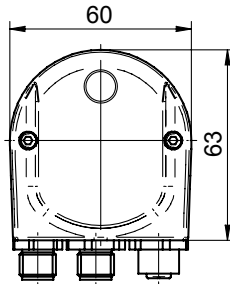
BMSK 58, BMMK 58 flexibel - MAGRES

Dimensions

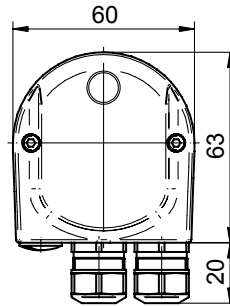
Profibus-DP/CANopen®



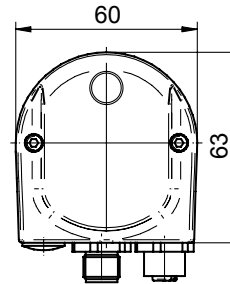
Profibus-DP - M12



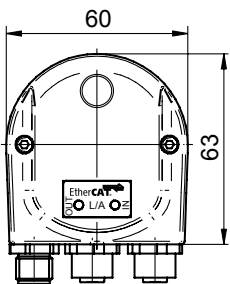
DeviceNet



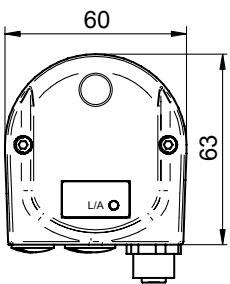
CANopen®/DeviceNet M12



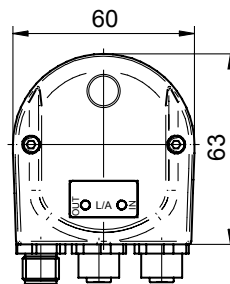
EtherCAT/EtherNet-IP



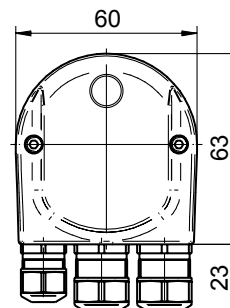
Power over EtherCAT



PROFINET/POWERLINK



SAEJ1939



SAEJ1939 - M12

