

Absolute encoders - modular bus covers

Solid shaft $\varnothing 10$ mm with clamping flange

Magnetic multiturn encoders 12 bit ST / 18 bit MT

BMMV 58 flexible - *MAGRES hermetic*



BMMV 58K flexible with clamping flange

Features

- Encoder multiturn / bus cover
- Magnetic sensing, hermetically sealed
- Resolution: singleturn 12 bit, multiturn 18 bit
- Modular fieldbus interfaces
- High resistance to shock and vibrations
- Resolution and zero point programmable
- CANopen®/EtherNet-IP/PROFINET/Profibus/SAEJ1939
- Protection IP 69K
- Material: stainless steel 1.4305

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®, EtherNet/IP, Profibus-DPV0/V2, PROFINET, SAEJ1939
Function	Multiturn
Device adress	Rotary switch in bus cover
Steps per turn	≤ 4096 / 12 bit
Number of turns	≤ 262144 / 18 bit
Absolute accuracy	$\pm 1^\circ$
Sensing method	Magnetic
Code	Binary
Code sequence	CW default, programmable
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-3
Programmable parameters	Steps per revolution Number of revolutions Preset Scaling Rotating direction
Diagnostic functions	Position or parameter error Multiturn sensing
Status indicator	DUO-LED integrated in bus cover
Approval	UL approval / E217823

Technical data - mechanical design

Size (flange)	$\varnothing 58$ mm
Shaft type	$\varnothing 10$ mm solid shaft (clamping flange)
Flange	Clamping flange
Protection DIN EN 60529	IP 69K
Operating speed	≤ 6000 rpm
Operating torque typ.	0.031 Nm
Admitted shaft load	≤ 120 N axial (combined) ≤ 280 N radial (combined) ≤ 270 N axial (concentrated load)
Materials	Stainless steel 1.4305 (other materials on request)
Operating temperature	$-40 \dots +85^\circ\text{C}$
Resistance	DIN EN 60068-2-6 Vibration 30 g, 10-2000 Hz DIN EN 60068-2-27 Shock 500 g, 6 ms
Weight approx.	900 g
Connection	Bus cover

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Part number			
Multiturn clamping flange			
BMMV 58K5N		H0	
			Connection
		D	Encoder with bus cover / cable gland (CANopen, DeviceNet, Profibus)
		E	Encoder with bus cover, M12
			Solid shaft
		H0	ø10 mm, IP 68 and IP 69K
			Resolution
	12/18		12/18 bit single-/multiturn (only CANopen)
	12/16		12/16 bit single-/multiturn
			Voltage supply / signals
	24B		10...30 VDC / CANopen®
	24D		10...30 VDC / DeviceNet*
	24P		10...30 VDC / Profibus-DPV0
	24Q		10...30 VDC / Profibus-DPV2
	24I		10...30 VDC / EtherNet/IP
	246		10...30 VDC / EtherCAT*
	24L		10...30 VDC / POWERLINK*
	24H		10...30 VDC / PROFINET
	24J		10...30 VDC / SAEJ1939
	24C		10...30 VDC / basic encoder

Accessories	
Connectors and cables	
10160565	Cable connector/connector M12, EtherCAT, straight, 5 m
11046266	Female connector M12, 5-pin, straight, 5 m cable
11046264	Female connector M12, 5-pin, straight, 2 m cable
10153968	Female connector M12, 5-pin, straight, without cable
10157909	Cable with male/female M12, Profibus, straight, B-coded, 2 m
10157910	Cable with male/female M12, Profibus, straight, B-coded, 5 m
10159389	Cable with male/female M12, Profibus, straight, B-coded, 0.3 m (stub line)
10157911	Cable with male/female M12, Profibus, angled, B-coded, 2 m
10157912	Cable with male/female M12, Profibus, angled, B-coded, 5 m
Mounting accessories	
10252773	Clamp set ø15 mm
11053277	Bellows coupling aluminium/stainless steel 10 mm
Programming accessories	
10147362	CD-ROM with GSD-/EDS-/XML files and user manuals

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

* On request

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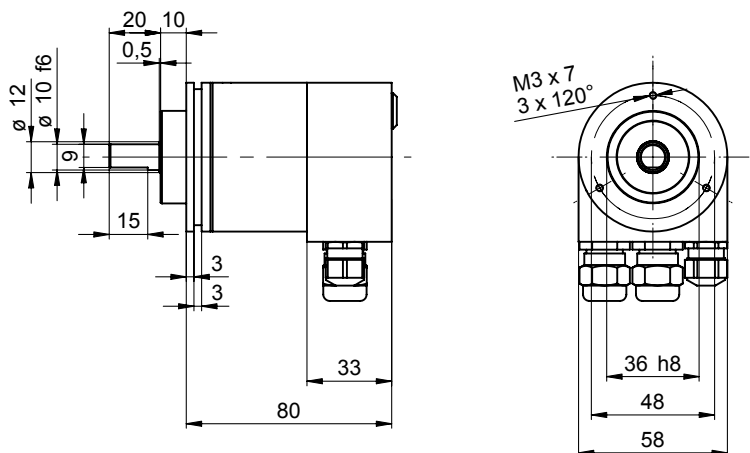
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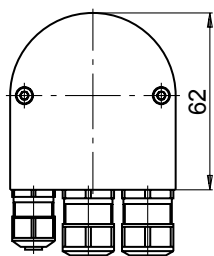
BMMV 58 flexible - *MAGRES hermetic*

Dimensions

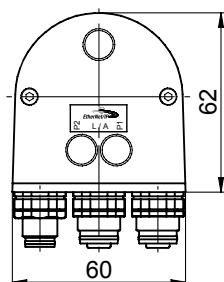
BMMV 58 hermetic flexible, with bus cover



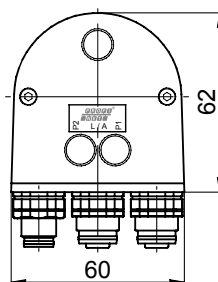
CANopen®



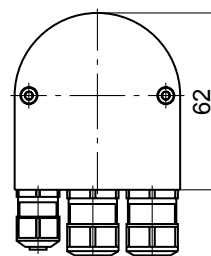
EtherNet-IP



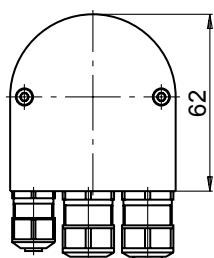
PROFINET



Profibus-DP



SAEJ1939



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