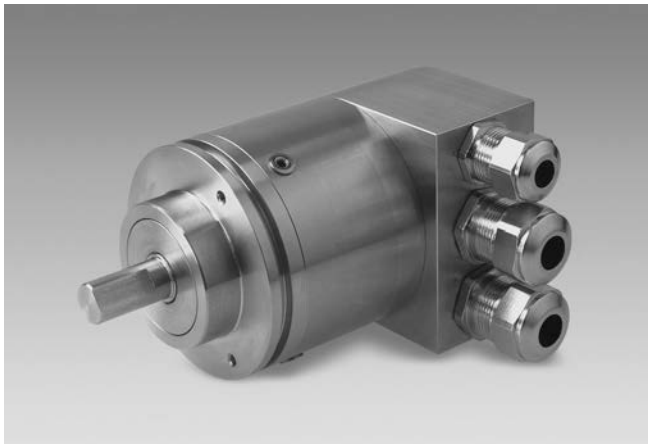
Absolute encoders - modular bus covers

Solid shaft ø10 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, SAE J1939
Function	Multiturn
Device adress	Rotary switches in bus cover
Steps per revolution	≤4096 / 12 bit
Number of revolutions	≤262144 / 18 bit
Absolute accuracy	±1 °
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)	ø58 mm
Shaft type	ø10 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...+85 °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

BMMV 58 flexible - *MAGRES hermetic*

Part number

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

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

* On request

Accessories

Connectors and cables

10160565	Cable connector/connector M12, EtherCAT, straight, 5 m
11046266	Female connector M12, 5-pin, straight, shielded, 5 m cable
11046264	Female connector M12, 5-pin, straight, shielded, 2 m cable
10153968	Female connector M12, 5-pin, straight, without cable
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

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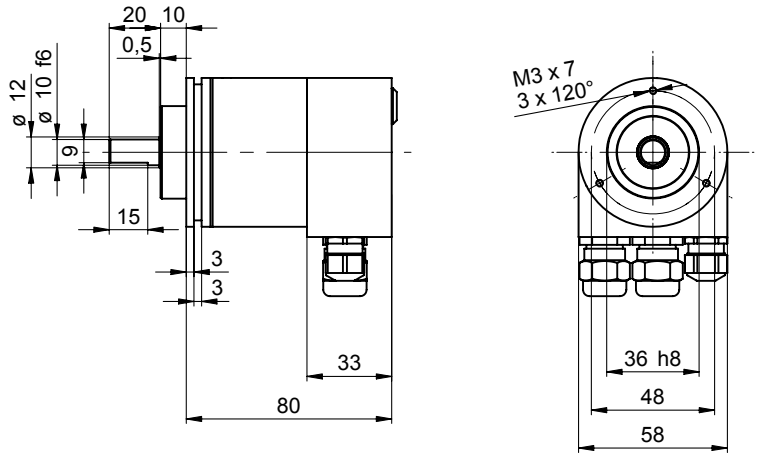
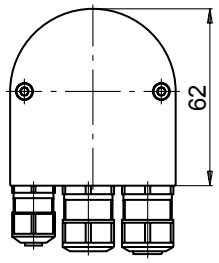
BMMV 58 flexible - *MAGRES hermetic*

Dimensions

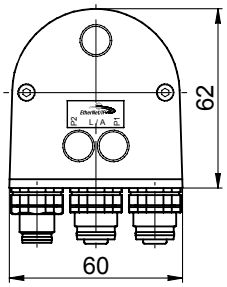
BMMV 58 flexible hermetic, with bus cover



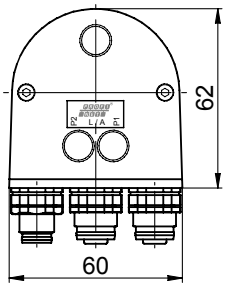
CANopen®



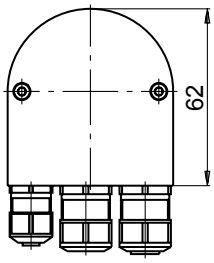
EtherNet-IP



PROFINET



Profibus-DP



SAEJ1939