

# Absolute encoders - modular bus covers

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/DeviceNet/EtherCAT/EtherNet-IP/SAEJ1939  
PROFINET/POWERLINK/Profibus
- Protection IP 69K
- Material: stainless steel 1.4305

### Technical data - electrical ratings

Voltage supply	10...30 VDC
Consumption w/o load (typ.)	100 mA (24 VDC)
Initializing time (typ.)	170 ms after power on
Interfaces	CANopen, DeviceNet, EtherCAT, EtherNet/IP, Profibus-DPV0/V2, PROFINET, POWERLINK, SAEJ1939
Function	Multiturn
User address	Rotary switch in bus cover
Steps per turn	$\leq 4096$ / 12 bit
Number of turns	$\leq 262144$ / 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 Rotational 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

Dimensions (flange)	$\varnothing 58$ mm
Shaft	$\varnothing 10$ mm (clamping flange)
Flange	Clamping flange
Protection DIN EN 60529	IP 68, IP 69K
Operating speed	$\leq 6000$ rpm
Operating torque typ.	0.031 Nm
Shaft loading	$\leq 120$ N axial (combined) $\leq 280$ N radial (combined) $\leq 270$ N axial (concentrated load)
Materials	Stainless steel 1.4305 (other materials on request)
Operating temperature	$-40 \dots +85$ °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

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### Part number

#### Multiturn clamping flange

BMMV 58K5N   H0

#### Connection

G Basic encoder without bus cover

D Complete encoder with bus cover / cable gland (w/o 246)

E Complete encoder with bus cover, M12

#### Shaft

H0  $\varnothing$ 10 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

246 10...30 VDC / EtherCAT

24I 10...30 VDC / EtherNet/IP

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

10137485 Female connector M12, 5-pin, A-coded, straight, shielded, 5 m

10144720 Female connector M12, 5-pin, A-coded, straight, shielded, 2 m

10153968 Female connector M12, 5-pin, A-coded, straight

10157909 Cable with male/female M12, Profibus, shielded, straight, B-coded, 2 m

10157910 Cable with male/female M12, Profibus, shielded, straight, B-coded, 5 m

10159389 Cable with male/female M12, Profibus, shielded, straight, B-coded, 0.3 m (stub line)

10157911 Cable with male/female M12, Profibus, shielded, angled, B-coded, 2 m

10157912 Cable with male/female M12, Profibus, shielded, angled, B-coded, 5 m

#### Mounting accessories

10252773 Clamp set  $\varnothing$ 15 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 free-of-charge under part number 10147362.

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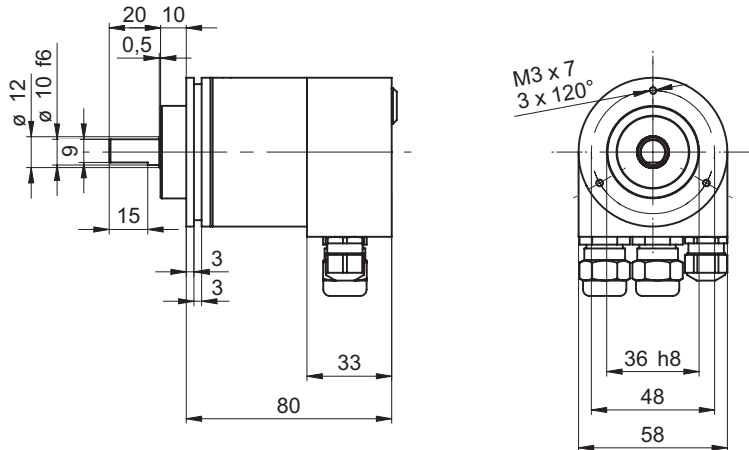
Shaft  $\varnothing 10$  mm with clamping flange

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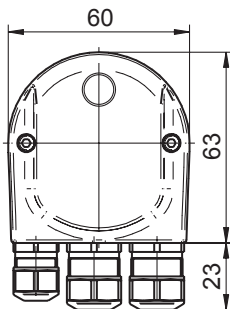
## BMMV 58 flexible - MAGRES hermetic

### Dimensions

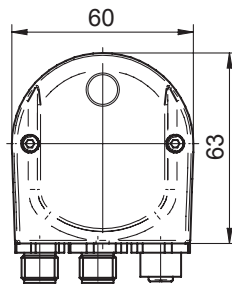
BMMV 58 hermetic flexible, with bus cover



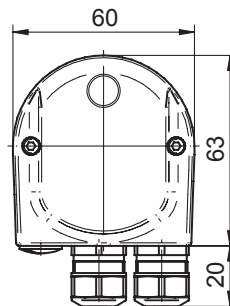
Profibus-DP/CANopen



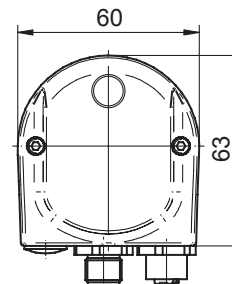
Profibus-DP - M12



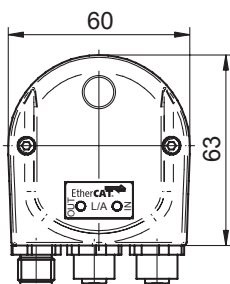
DeviceNet



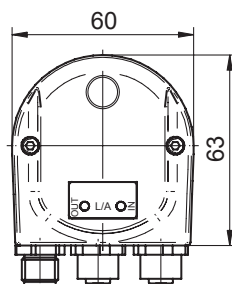
CANopen/DeviceNet M12



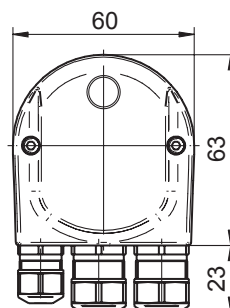
EtherCAT/EtherNet-IP



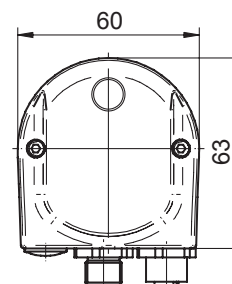
PROFINET/POWERLINK



SAEJ1939



SAEJ1939 - M12



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