

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	≤ 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 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	≤ 6000 rpm
Operating torque typ.	0.031 Nm
Shaft loading	≤ 120 N axial (combined) ≤ 280 N radial (combined) ≤ 270 N axial (concentrated load)
Materials	Stainless steel 1.4305 (other materials on request)
Operating temperature	$-40 \dots +85$ °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	<input type="text"/> <input type="text"/> H0 <input type="text"/>
	<p>Connection</p> <p>G Basic encoder without bus cover</p> <p>D Complete encoder with bus cover / cable gland (w/o 246)</p> <p>E Complete encoder with bus cover, M12</p> <p>Shaft</p> <p>H0 \varnothing10 mm, IP 68 and IP 69K</p> <p>Resolution</p> <p>12/18 12/18 bit single-/multiturn (only CANopen)</p> <p>12/16 12/16 bit single-/multiturn</p> <p>Voltage supply / signals</p> <p>24B 10...30 VDC / CANopen</p> <p>24D 10...30 VDC / DeviceNet</p> <p>24P 10...30 VDC / Profibus-DPV0</p> <p>24Q 10...30 VDC / Profibus-DPV2</p> <p>246 10...30 VDC / EtherCAT</p> <p>24I 10...30 VDC / EtherNet/IP</p> <p>24L 10...30 VDC / POWERLINK</p> <p>24H 10...30 VDC / PROFINET</p> <p>24J 10...30 VDC / SAEJ1939</p> <p>24C 10...30 VDC / basic encoder</p>

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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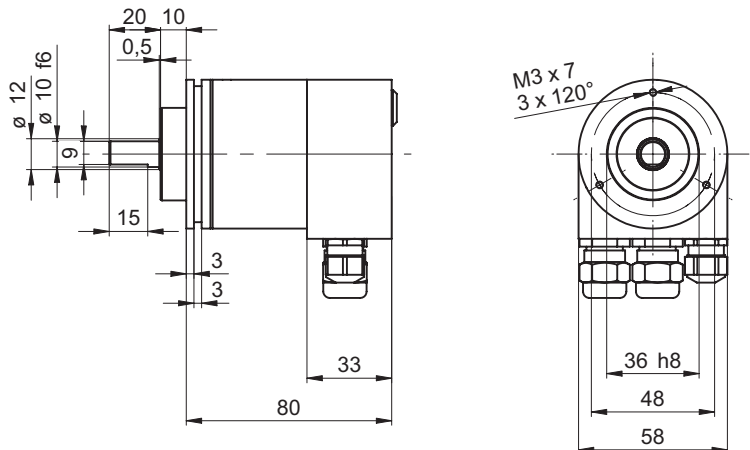
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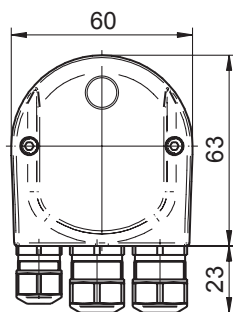
BMMV 58 flexible - MAGRES hermetic

Dimensions

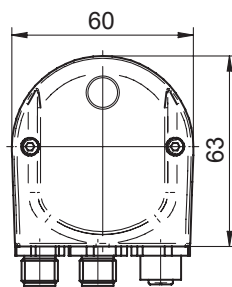
BMMV 58 hermetic flexible, with bus cover



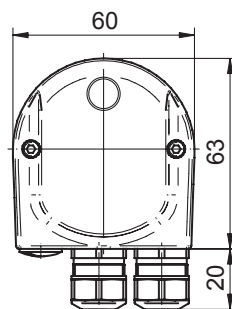
Profibus-DP/CANopen



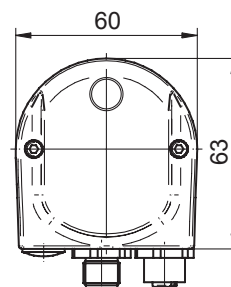
Profibus-DP - M12



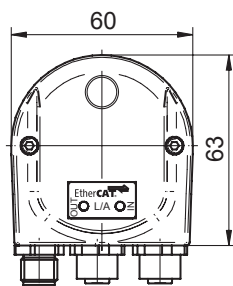
DeviceNet



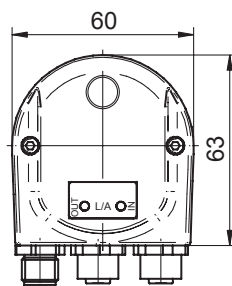
CANopen/DeviceNet M12



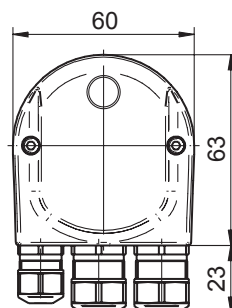
EtherCAT/EtherNet-IP



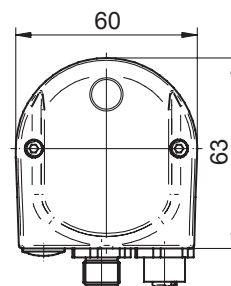
PROFINET/POWERLINK



SAEJ1939



SAEJ1939 - M12



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