

Absolute encoders - modular bus covers

End shaft $\varnothing 12$ mm

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

BMSH 58, BMMH 58 flexible - *MAGRES*



BMMH 58 flexible with end shaft

Features

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

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, PoE, Profibus-DPV0/V2, PROFINET, POWERLINK, SAEJ1939
User address	Rotary switch in bus cover
Steps per turn	≤ 4096 / 12 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
BMSH 58	
Function	Singleturn
BMMH 58	
Function	Multiturn
Number of turns	≤ 262144 / 18 bit

Technical data - mechanical design

Dimensions (flange)	$\varnothing 58$ mm
Shaft	$\varnothing 12$ mm end shaft
Protection DIN EN 60529	IP 65
Operating speed	≤ 12000 rpm (mechanical) ≤ 6000 rpm (electric)
Operating torque typ.	0.0093 Nm
Materials	Housing: steel Flange: aluminium Bus cover: zinc die-cast
Operating temperature	$-20 \dots +85^\circ\text{C}$
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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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

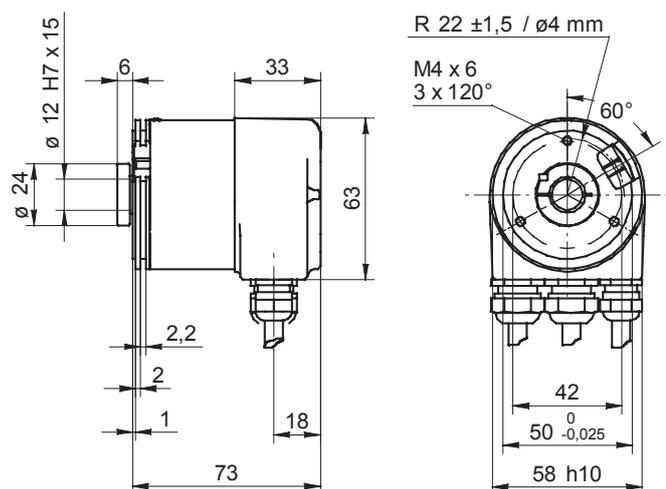
10136635	Set of spring coupling for encoders $\varnothing 58$ mm
10110616	Clamp set $\varnothing 15$ mm
10107540	Torque pin
10109520	Torque spring washer

Programming accessories

10147362	CD-ROM with GSD-/EDS-/XML files and user manuals
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Dimensions

BMSH/BMMH 58 flexible encoder with bus cover



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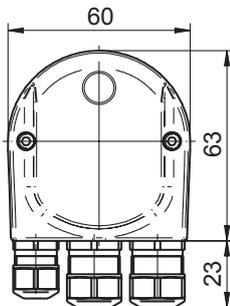
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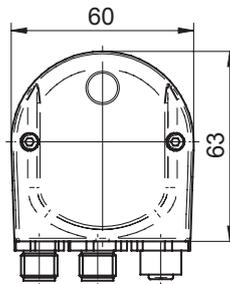
BMSH 58, BMMH 58 flexible - MAGRES

Dimensions

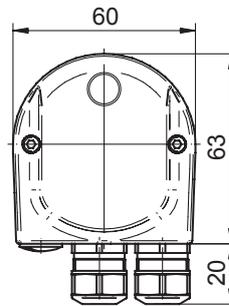
Profibus-DP/CANopen



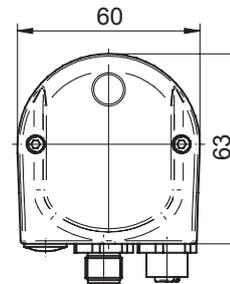
Profibus-DP - M12



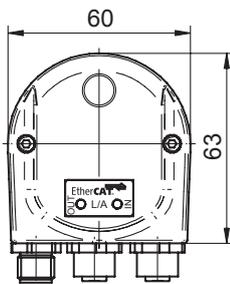
DeviceNet



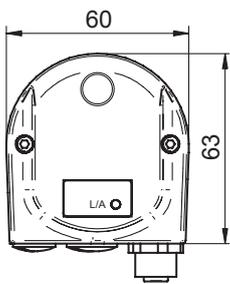
CANopen/DeviceNet M12



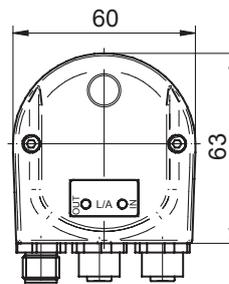
EtherCAT/EtherNet-IP



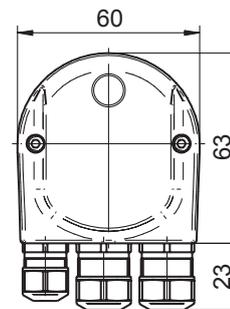
Power over EtherCAT



PROFINET/POWERLINK



SAEJ1939



SAEJ1939 - M12

