

Magnetic absolute single-turn encoder

BMSH – MAGRES

Profibus-DP, CANopen, DeviceNet

features

- robust singleturn encoder 12 Bit
- modular bus cover
- simple mounting via servo flange
- selectable bus parameters
- programmable scaling and preset values

general data

voltage supply	10 - 30 VDC
max. supply current no load	100 mA (at 24 VDC)
available bus support	CANopen, DeviceNet, Profibus-DP
max. resolution	12 Bit (1 step = 5' 16'')
max. error limit	± 1° *
repeatability	0.3°
preset	value programmable within resolution range
address	selectable via dipswitches
baud rate	selectable via dipswitches
direction of rotation	programmable, default is increasing values with clockwise shaft rotation while viewing flange

*measured over full -20...+85°C temperature range

mechanical data

max. revolutions	12,000 rpm
hollowshaft	∅ 12 mm H7 x 20
rotor inertia	12 x 10 ⁻⁷ kgm ²
torque	0.93 cNm rpm (3,000 U/min / 20 °C / IP 42)
product life	dependent on ambient conditions (typ. 10 ⁹ revolutions)
max. protection class	IP 65
material	housing: steel buscover/flange: aluminum
weight	400 g

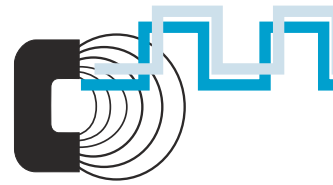


order designation

BMSH 58S1N 24 C 12/00	<input type="checkbox"/> G	base encoder (no bus cover)
BMSH 58S1N 24	<input type="checkbox"/> 12/00	<input type="checkbox"/> D complete encoder
		hollowshaft
		B2 12 mm IP 42 with clamping ring
		P2 12 mm IP 65 with clamping ring
		interface
	B	CANopen
	D	DeviceNet
	P	Profibus-DP

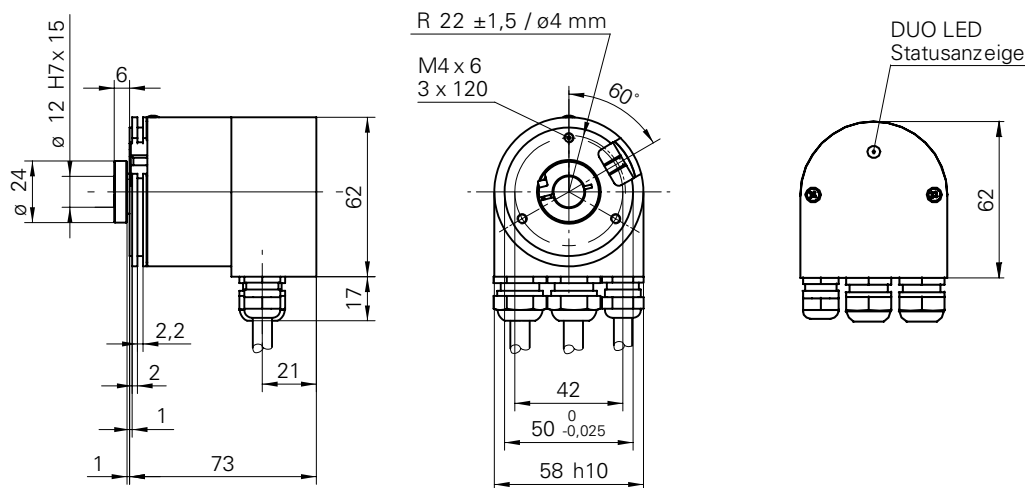
ambient conditions

temperature range	-20° to +85 °C
relative humidity	max. 95% non condensing
vibration	IEC 60068-2-6 (≤ 300 m/s ² / 10-200 Hz)
shock	IEC 60088-2-27 (≤ 1000 m/s ² / 11 ms)
noise immunity	EN 61000-6- 2
emitted interference	EN 61000-6- 3



Profibus-DP, CANopen, DeviceNet

dimensions



accessories

clamp set	Art.Nr. 110616
torque pin	Art.Nr. 107540
torque spring ¹⁾	Art.Nr. 109520
spring plate	Art.Nr. 136635
buscover	
Profibus-DP	Art.Nr. 140831
CANopen	Art.Nr. 140832
DeviceNet	Art.Nr. 140833
CD with GSD/EDS-Data and manual(included)	Art.Nr. 141134

¹⁾ torque spring included