ubject to modification in technic and design. Errors and omissions excepte

Absolute encoders - modular bus covers

Through hollow shaft max. ø50.8 mm

Optical multiturn encoders 13 bit ST / 16 bit MT

CANopen® / DeviceNet / Profibus

G1MMH, G2MMH - multivo



G1MMH with modular bus cover

Features

- Encoder multiturn / bus cover
- Optical sensing
- Resolution: singleturn 13 bit, multiturn 16 bit
- Through hollow shaft of 1" and 2" diameter
- High flexibility in mounting and maintenance
- Resolution, baud rate, node ID optionally selectable
- Code continuity check optional by bus

Optional

1

- Modular bus covers for SSI interface

Technical data - electric	cal ratings
Voltage supply	1030 VDC
Reverse polarity protection	on Yes
Consumption w/o load	< 100 mA (24 VDC)
Initializing time typ.	250 ms after power on
Interfaces	CANopen®, DeviceNet, Profibus-DPV0
Function	Multiturn
Device adress	Rotary switch in bus cover
Steps per turn	≤8192 / 13 bit
Number of turns	≤65536 / 16 bit
Absolute accuracy	±0.025 °
Sensing method	Optical
Code	Binary
Code sequence	CW/CCW programmable
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
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 / E63076

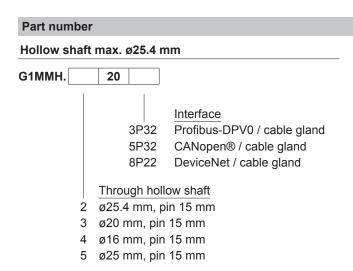
Technical data - mechani	ical design
Protection DIN EN 60529	IP 54, IP 65 (optional)
Materials	Housing: aluminium Flange: aluminium Bus cover: aluminium
Operating temperature	-25+85 °C -40+85 °C (optional)
Relative humidity	95 % non-condensing
Resistance	DIN EN 60068-2-6 Vibration 10 g, 16-2000 Hz DIN EN 60068-2-27 Shock 200 g, 6 ms
Connection	Bus cover
G1MMH	
Size (flange)	ø90 mm
Shaft type	ø1625.4 mm (through hollow shaft)
Operating speed	≤3800 rpm (mechanical) ≤6000 rpm (electric)
Starting torque	≤0.35 Nm
Rotor moment of inertia	2000 gcm ²
Weight approx.	890 g
G2MMH	
Size (flange)	ø116 mm
Shaft type	ø50.8 mm (through hollow shaft)
Operating speed	≤2000 rpm (mechanical) ≤6000 rpm (electric)
Starting torque	≤0.5 Nm
Rotor moment of inertia	11000 gcm²
Weight approx.	1200 g

Absolute encoders - modular bus covers

Accessories

Through hollow shaft max. ø50.8 mm Optical multiturn encoders 13 bit ST / 16 bit MT CANopen® / DeviceNet / Profibus

G1MMH, G2MMH - multivo



CD with file descriptions is not included in the delivery. You may order them on CD as accessory free-of-charge under part number Z 150.022.

Hollow shaft max. ø50.8 mm				
G2MMH.	20			
	3P32 5P32 8P22	Interface Profibus-DPV0 / cable gland CANopen® / cable gland DeviceNet / cable gland		
2 3	Through hollow shaft ø50.8 mm, pin 15 mm ø50 mm, pin 15 mm			

Accessorie	Accessories		
Mounting a	ccessories for G1MMH		
Z 119.037	Rubber buffer element 18.5 mm long, as torque support		
Z 119.039	Set of adjusting angles as torque support		
Z 119.040	Shoulder screw M5 as torque support		
Z 119.041	Torque support by rubber buffer element for encoders with 15 mm pin		
Z 119.043	Spring coupling for GX and G1		
Z 119.050	Spring coupling for one-side attachment, length 35 mm		
Mounting a	ccessories for G2MMH		
Z 119.037	Rubber buffer element 18.5 mm long, as torque support		
Z 119.039	Set of adjusting angles as torque support		
Z 119.040	Shoulder screw M5 as torque support		
Z 119.041	Torque support by rubber buffer element for encoders with 15 mm pin		
Z 119.050	Spring coupling for one-side attachment, length 35 mm		
Programmi	ng accessories		
Z 150.022	CD with describing files & manuals		



Absolute encoders - modular bus covers

Through hollow shaft max. ø50.8 mm

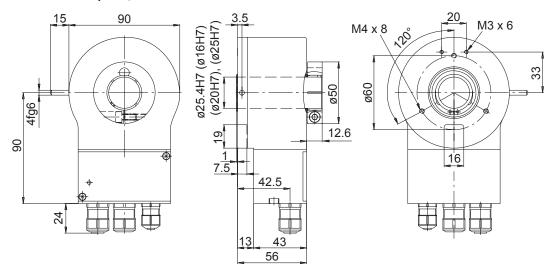
Optical multiturn encoders 13 bit ST / 16 bit MT

CANopen® / DeviceNet / Profibus

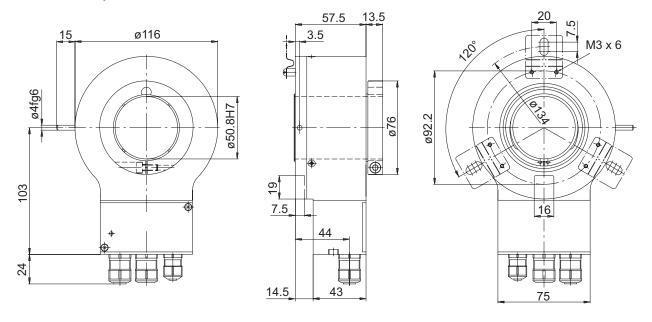
G1MMH, G2MMH - multivo

Dimensions

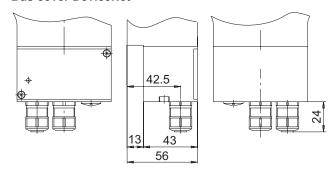
G1MMH - CANopen®, Profibus



G2MMH - CANopen®, Profibus



Bus cover DeviceNet





4 Subject to modification in technic and design. Errors and omissions excepte

Absolute encoders - modular bus covers

Through hollow shaft max. ø50.8 mm Optical multiturn encoders 13 bit ST / 16 bit MT CANopen® / DeviceNet / Profibus

G1MMH, G2MMH - multivo

