

# Absolute encoders - modular bus covers

Shaft with clamping flange or synchro flange

Optical multiturn encoders 13 bit ST / 16 bit MT

CANopen / DeviceNet / Profibus

**GEMMW** - *multivo*



GEMMW with modular bus cover

## Features

- Encoder multiturn / bus cover
- Stainless steel design
- Optical sensing
- Resolution: singleturn 13 bit, multiturn 16 bit
- Clamping or synchro flange
- Modular bus interfaces
- CANopen, DeviceNet, Profibus-DP
- Material: stainless steel 1.4305

## Technical data - electrical ratings

Voltage supply	10...30 VDC
Reverse polarity protection	Yes
Consumption w/o load	≤100 mA (24 VDC)
Initializing time (typ.)	250 ms after power on
Interfaces	Profibus-DPV0, CANopen, DeviceNet
User address	Rotary switch in bus cover (type-specific)
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 Rotational direction
Diagnostic functions	Position or parameter error Multiturn sensing
Approval	UL approval / E63076

## Technical data - mechanical design

Housing	ø58 mm
Shaft	ø10 mm (clamping flange) ø6 mm (synchro flange)
Flange	Clamping or synchro flange
Protection DIN EN 60529	IP 67
Operating speed	≤10000 rpm (mechanical) ≤6000 rpm (electric)
Starting torque	≤0.03 Nm IP 67
Rotor moment of inertia	20 gcm <sup>2</sup>
Admitted shaft load	≤20 N axial ≤40 N radial
Materials	Housing: stainless steel 1.4305 Flange: stainless steel 1.4305 Bus cover: stainless steel 1.4305
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
Weight approx.	900 g
E-connection	Bus cover

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## Part number

GEMMW.  **20**

Interface  
 3P32 Profibus-DPV0 / cable gland  
 5P32 CANopen / cable gland  
 8P22 DeviceNet / cable gland

### Flange / Shaft

- A Clamping flange /  $\varnothing 10$  mm IP 67
- B Synchro flange /  $\varnothing 6$  mm IP 67

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

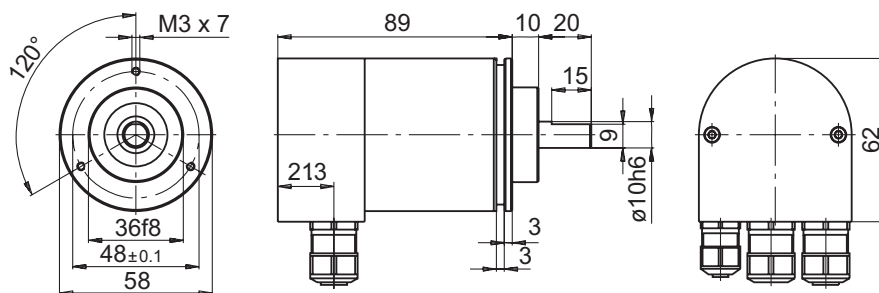
## Accessories

### Programming accessories

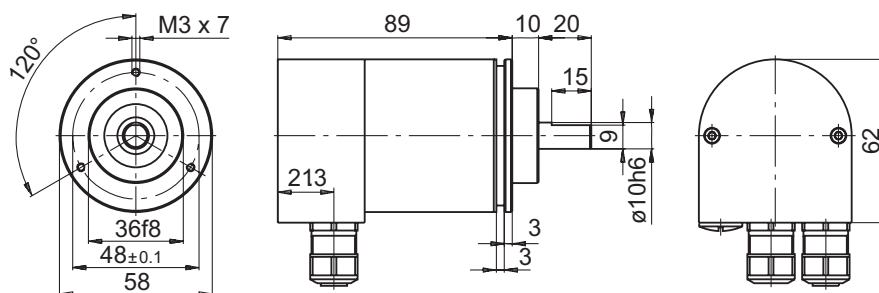
Z 150.022 CD with describing files & manuals

## Dimensions

### GEMMW CANopen, Profibus-DP, clamping flange



### GEMMW DeviceNet, clamping flange



### GEMMW synchro flange

