



MEM-BUS PROFINET & EtherCAT

Multiturn

Fieldbus				
Resolution	13 bit / 8192 info/revolution			
Steps no. (Multiturn type)	16 bit / 65536			
Supply voltage	10/30 Vdc			
Connections	3 connectors type M12			
Housing material	Aluminium			
Protection degree	IP67 – shaft side: IP65 – optional IP66 with sealing O-ring			
Dimensions	Ø 58 mm			
Flange	<input type="checkbox"/> 63.5x63.5 mm	Ø 58 mm		Blind hollow shaft
Centering mask	Ø 31.75 mm	Ø 50 mm	Ø 36 mm	
Fixing	4 holes	Servo holes on Ø 42 mm	3 holes on Ø 48 mm	Anti-rotational support Anti-rotational elastic support
Shaft Ø	6, 8, 10 mm		8, 10, 12, 14, 15 mm.	

ENCODER PROFILE

PROFINET® Encoder Profile V4.1 version 3.162

- Application class 3 – 4
- Standard Telegram 81, 82, 83, 84 –User Telegram 860

EtherCAT® Ref IEC61158-1-6 & IEC61784-2

- Device Profile CANOpen over EtherCAT (CoE), CiA DS-406

• EtherNet/IP™ Ref IEC61784-1

- Device profile: CIP™ Protocol, encoder profile 22H
- CIP Sync protocol complying with standard IEEE-1588
- Assembly object 1, 2, 3 – Proprietary object 110

CERTIFICATES



ENCODERS

INTERFACE

SYNCHRO FLANGE

CLAMPING FLANGE



MEM620-Bus



MEM520-Bus



MEM540-Bus



MEM410-Bus



MEM450-Bus

MEM-BUS PROFIBUS & CANopen

Single/Multiturn



13 bit / 8192 info/revolution

16 bit / 65536

5/28 Vdc

3 / 2 cable glands

3 / 2 cable glands or 2 M12 connectors

Aluminium

IP65 - optional IP66 with sealing O-ring

Ø 58 mm

63.5x63.5 mm	Ø 58 mm		Blind hollow shaft	
Ø 31.75 mm	Ø 50 mm	Ø 36 mm		
4 holes	Servo 3 holes on Ø 42 mm	3 holes on Ø 48 mm	Anti-rotational support	Anti-rotational elastic support
6, 8, 10 mm			8, 10, 12, 14, 15 mm.	

BUS SPECIFICATIONS

PROFIBUS® Encoder Profile Profibus DP standard EN 501701 Vol. 2

- **Application Class: 1- 2**
- Parameter entering and preset functions, scaling functions

CANopen® standards CiA DS 301 and DS 406 "Device Profile for Encoders"

- **Class C2**

SETTABLE PARAMETERS

- Steps/revolution
- Revolutions number
- Preset
- Rotation direction

DIAGNOSTIC FUNCTIONS

- Position or parameter error
- Battery alarm

STATE INDICATORS

- 3 signalling LEDs for:
 - Supply
 - Line
 - Error (CANopen)



CANopen encoders – version with M12 connectors

▶ ABSOLUTE ENCODERS

SINGLE & MULTITURN

elap



	MEM	REMA	REC-VA
	Single/Multiturn	Single-turn	
Resolution	5 ÷ 13 bit info/revolution		9 bit
Revolutions no. (Multiturn only)	15 bit	-	-
Code	Binary or Gray	Binary	
Supply voltage	5/28 Vdc	5 Vdc / 8÷24Vdc	18 ÷ 24 Vdc
Output signals	PARALLEL - SSI	SSI	Analogue 0÷10V on 360°
Connections	Axial or radial Cable or M23 connector	Axial or radial Cable or connector	Radial M12 connector or cable
Housing material	Aluminium	Aluminium	Aluminium
Protection degree	IP65 - optional IP66 with sealing O-ring		IP65

AVAILABLE MECHANICAL VERSIONS

Square flange 620	•	•	•
Square flange 650		•	
Round flange 520	•	•	•
Round flange 510		•	
Round flange 540	•	•	•
Hollow shaft 410	•	•	
Hollow shaft 430	•	•	
Hollow shaft 440			•
Hollow shaft 450			•

Series MEM listed encoders available

Series MEM-V Single-turn absolute encoder with 16 µs typical monoflop time



Encoder MEM540



Encoder REMA520



Encoder REC620-VA

▶ ABSOLUTE & INCREMENTAL ENCODERS

MAGNETIC PRINCIPLE



RM22

RM36

Dimensions	Ø 22 mm	Ø 36 mm
Flange		Ø 36 mm
Fixing	2 holes	4 holes on Ø 26 mm
Connections	Radial cable L 1 m	
Shaft Ø	6 mm	
Housing material	Aluminium	
Protection degree	IP64 – IP65 on request	
Supply voltage	5 Vdc	
Output signals	Line driver TTL	

RM22 & RM36 are high-speed magnetic rotary encoders designed for use in harsh industrial environments. The non-part design removes the need for seals or bearings, ensuring long-term reliability and simple installation.

The actuator comprises a magnetic actuator and a separate encoder body. Rotation of the magnetic actuator is sensed by a custom encoder chip **within the body, and processed to the required output.**

RM22 & RM36 are available with different absolute and incremental versions.

RM22 – RM36	Magnetic encoder – Incremental or absolute version available
RM22-I	Incremental encoder 128 ppr – 5V line driver output
RM36-I	Incremental encoder 128, 512, 1024 ppr – 5V line driver output
RM22-P	Absolute encoder 9 bit binary code – parallel output
RM22-S	Absolute encoder 9 bit binary code – SSI output
RM22-A	Sin/cos encoder – 1 Vpp ±0,1 mV analogue output
RM22-V	Encoder with voltage analogue output 0/5 Vdc on 360° with clockwise rotation
RM36-V	Encoder with voltage analogue output 0/10 Vdc on 360°, 180°, 90°, 45° with clockwise or cc rotation



Encoders series RM22 – RM36