

Solid mechanical construction  
 Protection to IP 65, IP 66  
 SMD technology  
 Electronic preset  
 Programmable



## Absolut Manual Encoder MEA 70 Profibus / CANopen<sup>®</sup> / Device Net

Manual pulse generator with magnetic click-stop with programmable Absolute Encoder, Single-turn or Multi-turn

### Resolution

#### Resolution (Steps/360°):

4096 = 12 bit                      8192 = 13 bit                      65536 = 16 bit

### Measuring range

#### Measuring range

Single-Turn	1 turn
Multi-Turn	4096 Umdrehungen = 12 bit
	16384 Umdrehungen = 14 bit

### Type explanation

#### MEA70 /EAM58-24B-30-PB

Encoder type	Absolute
Case diameter	ø 58 mm
Number of bits	12 = 12 bits x 1 turn
	13 = 13 bits x 1 turn
	16 = 16 bits x 1 turn
	24 = 12 bits x 4096 turns
	25 = 13 bits x 4096 turns
	28 = 16 bits x 4096 turns
	26 = 12 bits x 16384 turns
	27 = 13 bits x 16384 turns
	30 = 16 bits x 16384 turns
Single-turn	Yes
Multi-turn	Yes
Supply voltage	30 = 10..30 VDC
Interface	PB = Profibus
	CO = CANopen <sup>®</sup>
	DN = Device Net

## Technical data

### Mechanical data

Graduation	1 - 100
Torque	5 .. 20 Ncm
shaft loading	? 50 N radial ? 20 N axial
Operational life of ball bearings	> 6 x 10 <sup>9</sup> revolutions
Weight	? 1,5 kg

### Environmental conditions

Vibration	100 m/s <sup>2</sup> (10 ... 1000 Hz)
Shock	300 m/s <sup>2</sup> (11 ms)
Operating temperature	-40 ... +85°C
Storage temperature	-40 ... +85°C
Atmospheric humidity	? 98% r.h.
Protection class	IP 65 (DIN 40050/IEC 144) IP 66 (optional)

### Electrical data

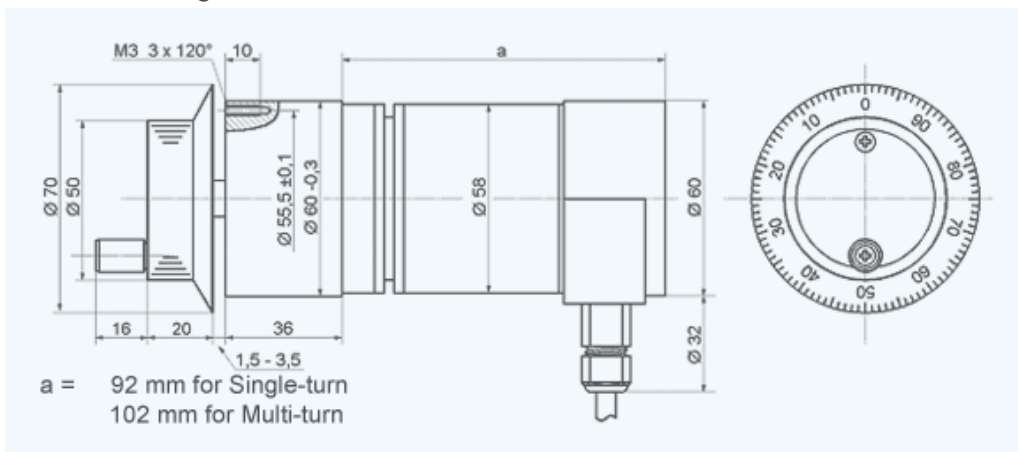
Scanning type	Optical, without contact
Transmitter, infrared	LED
Receiver	Photo-Array
Scanning frequency LSB	800 kHz
Measurement accuracy	±½ LSB (12 bit) ± 1 LSB (13 bit) ± 2 LSB (16 bit)
Supply voltage	V <sub>cc</sub> = 10...30 VDC
Power consumption	? 100 mA (V <sub>cc</sub> = 24 V)

### Electrical connections

#### Profibus

Interface	RS485 with optocoupler
Clock	max. 12 MBaud

## Outline drawing



Version MA 401-611 · Subject to change

