

## Manual Encoder EEV 70

Manual pulse generator, protection IP 65, resolution up to 10.000 pulses / revolution

### Resolution

#### Resolution (Pulses/Revolution):

1 - 6000	7000	7200	7500
8000	8192	9000	9144
10000			

### Type explanation

#### EEV 70-6-9000-30-P-RC12

Encoder type	Incremental
Flange diameter	ø 65 mm
Case diameter	ø 57 mm
Number of channels	3 = A + B + M 6 = AA + BB + MM
Resolutions	xxxx = Impulse pro Umdrehung
Supply voltage	05 = 5 VDC ± 5% 30 = 10 .. 30 VDC
Output driver	D-RS422
Position of connection	P R S
Connector	C07 = 7 pins Binder C12 = 12 pins M23 M10 = 10 pins MIL

## Technical data

### Mechanical data

Torque	≈ 18 Ncm
shaft loading	15 N radial 10 N axial
Weight	≤ 0,7 kg

### Environmental conditions

Vibration	100 ms <sup>-2</sup> (20 .. 2000 Hz)
Shock	1000 ms <sup>-2</sup> (11 ms)
Operating temperature	-0 ... +80°C
Atmospheric humidity	≤ 85% r.h.
Protection class	IP 65

### Electrical data

Scanning type	Optical, without contact
Transmitter, infrared	LED
Receiver	Photo-Transistor
Supply voltage	V <sub>cc</sub> = 5 VDC ±5% V <sub>cc</sub> = 10 ... 30 VDC
Power consumption	200 mA max.
Output frequency	≤ 300 kHz (Output D) ≤ 160 kHz (Output P)
Signal level	High > V <sub>cc</sub> -2 V Low < 0,5 V
Load capacity of the outputs	20 mA

### Cable 3 channels

Wire colour	Signal
Brown	+Vcc
Grey	0 V GND
Green	Signal A
White	Signal B
Yellow	Signal M
Shield	N.C.

### Cable 6 channels

Wire colour	Signal
Brown 0,5 mm <sup>2</sup>	+Vcc
Blue	+Vcc Sense <sup>1)</sup>
White 0,5 mm <sup>2</sup>	0 V GND
White	0 V Sense
Brown	Signal A+
Green	Signal A-
Grey	Signal B+
Pink	Signal B-
Red	Signal M+
Black	Signal M-
Shield	N.C.

1) nur bei Vcc = 5 VDC TTL

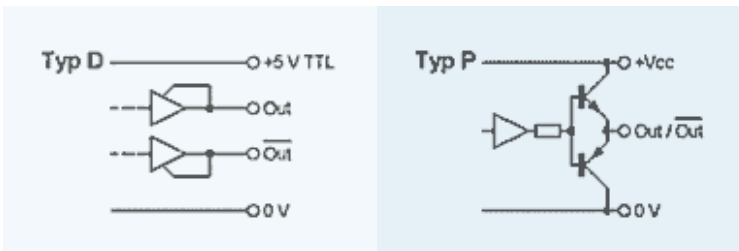
### Connector 12 pins M23

Connection	Signal
Pin 1	Signal B- <sup>1)</sup>
Pin 2	+Vcc Sense <sup>2)</sup>
Pin 3	Signal M+
Pin 4	Signal M- <sup>1)</sup>
Pin 5	Signal A+
Pin 6	Signal A- <sup>1)</sup>
Pin 7	N.C.
Pin 8	Signal B+
Pin 9	Shield
Pin 10	0 V GND
Pin 11	0 V Sense
Pin 12	+Vcc

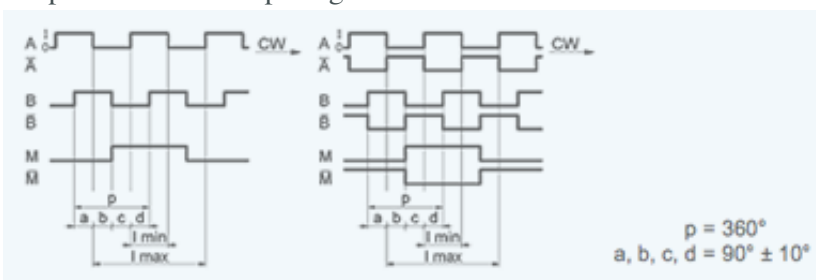
1) nur bei 6 Ausgangskanälen

2) nur bei Vcc = 5 VDC TTL

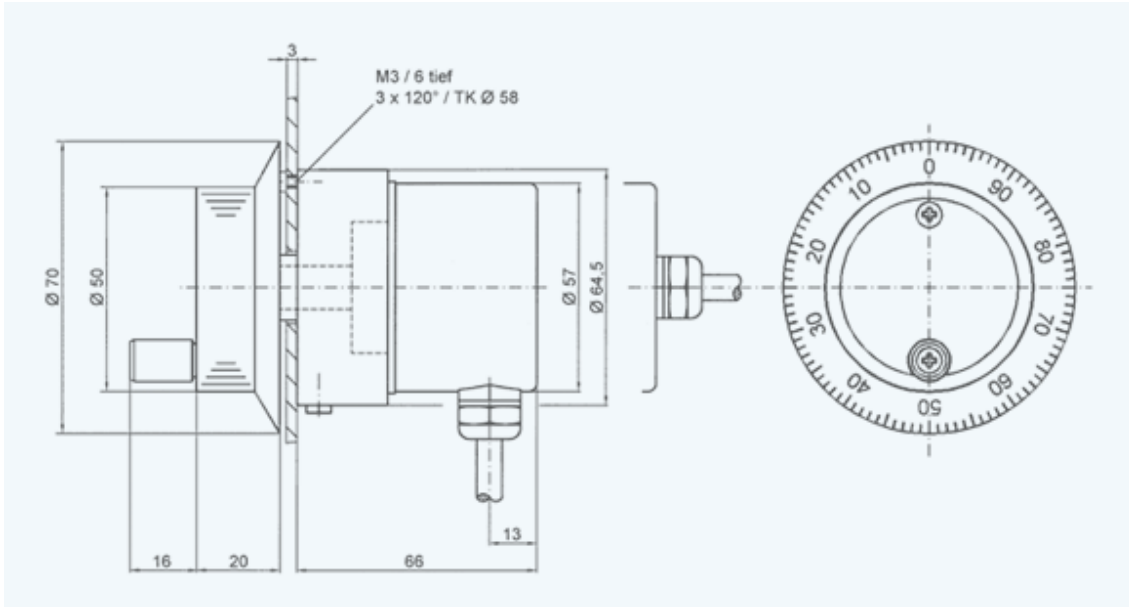
### Output driver



### Output channels / Output signals



## Outline drawing



Version E 529-307 · Subject to change

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