

Compact and simple low-cost type
 Housing of extruded aluminium sheath
 Flexible stainless steel cable Ø 0,8 mm
 Strong spring mechanics
 Precision cable drum



Inkrementaler Weggeber PLE 200

Linear Motion Transducer with 30.000 mm, 40.000 mm and 50.000 mm range, with Standard Incremental Encoder ED 58

Used encoder

Used encoder
 Standard Encoder ED 58

Type explanation

PLE 200-500-100/ED58-6-5000-05-D-RC12

Measuring range	300 = 30.000 mm 400 = 40.000 500 = 50.000
Number of turns of the encoder shaft	Messlänge in mm / 500 mm
Encoder type	Incremental
Number of channels	3 = A + B + M 6 = AA + BB + MM
Supply voltage	05 = 5 VDC ± 5% 30 = 10..30 VDC
Output driver	D-RS422 P
Position of connection	R S
Connector	C07 = 7 pins Binder C12 = 12 pins M23 M10 = 10 pins MIL

Technical data

Mechanical data

Acceleration of cable	$\leq 20 \text{ ms}^{-2}$
Side movement of cable	$\leq 3^\circ$
Weight	$\approx 10 \text{ kg}$ (PLE200-300-60)
	$\approx 11 \text{ kg}$ (PLE200-400-80)
	$\approx 12 \text{ kg}$ (PLE200-500-100)

Environmental conditions

Vibration	100 ms^{-2} (20 ... 2000 Hz)
Shock	200 ms^{-2}
Operating temperature	0 ... +80°C
Storage temperature	-40 ... +80°C
Atmospheric humidity	$\leq 95\%$ r.h.
Protection class	IP 65 (Standard Encoder ED 58)
	IP 40 (Mechanic of Linear Motion Transducer)

Electrical data

Scanning type	Optical, without contact
Transmitter, infrared	LED
Receiver	Photo-Array
Supply voltage	$V_{cc} = 5 \text{ VDC} \pm 5\%$
	$V_{cc} = 10...30 \text{ VDC}$
Power consumption	200 mA max.
Output frequency	$\leq 300 \text{ kHz}$ (Output D)
	$\leq 160 \text{ kHz}$ (Output P)
Signal level	High $> V_{cc} - 2 \text{ V}$
	Low $< 0,5 \text{ V}$
Load capacity of the outputs	20 mA

Cable

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

1) nur bei Vcc = 5 VDC TTL

2) nur bei 6 Ausgangskanälen

Connector 7 pins Binder

Connection	Signal
Pin 1	0 V GND
Pin 2	N.C.
Pin 3	Signal A
Pin 4	Signal B
Pin 5	+Vcc
Pin 6	Signal M
Pin 7	Shield

Connector 12 pins M23

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

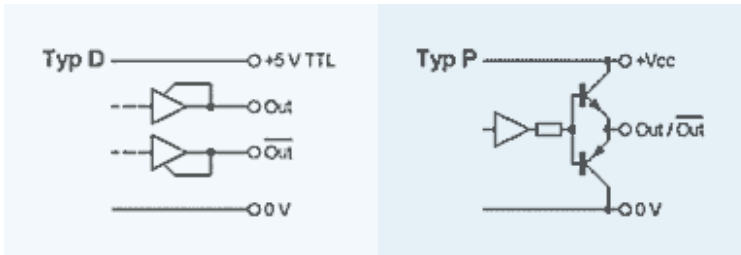
1) nur bei 6 Ausgangskanälen

2) nur bei Vcc = 5 VDC TTL

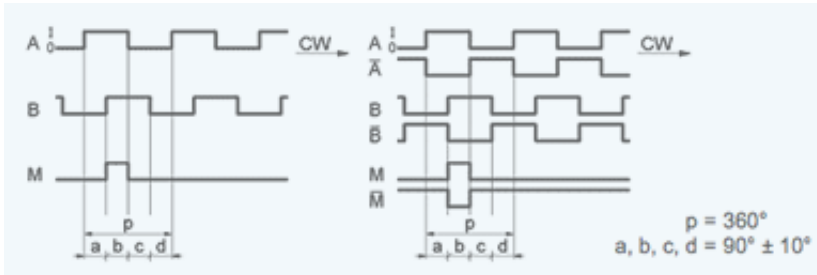
Connector 10 pins MIL

Connection	Signal
Pin A	Signal B+
Pin B	Signal A+
Pin C	Signal M+
Pin D	+Vcc
Pin E	+Vcc Sense
Pin F	0 V GND
Pin G	Shield
Pin H	Signal B- ¹⁾
Pin I	Signal A- ¹⁾
Pin J	Signal M- ¹⁾

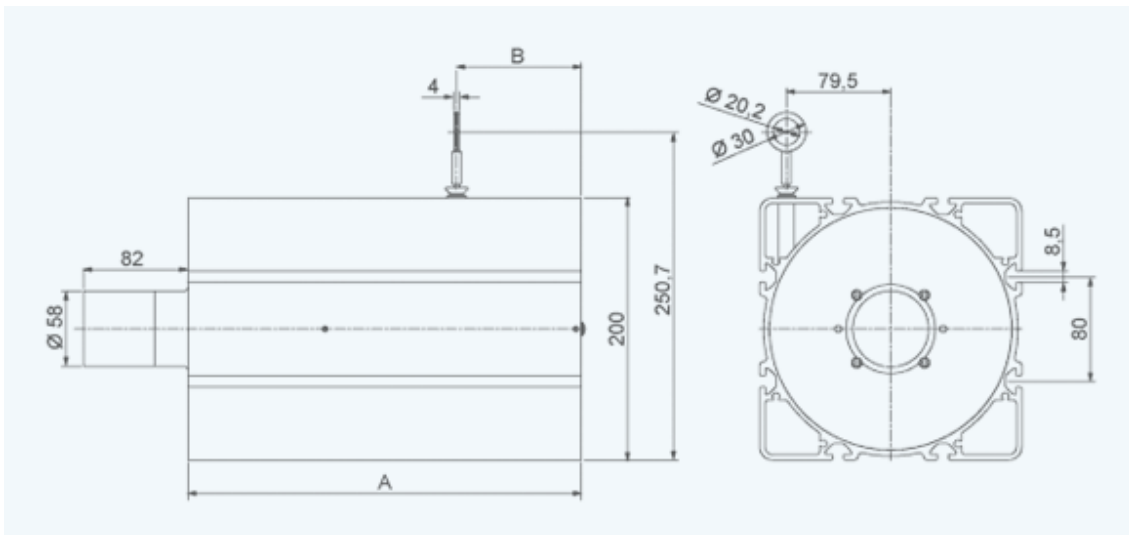
Output driver



Output channels / Output signals



Outline drawing



Version ZE 621-611 · Subject to change

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