



Very compact and simple low-cost type for use with
STANDARD ABSOLUTE ENCODERS
 Flexible stainless steel cable Ø 0.5 mm
 Strong spring mechanics
 Precision cable drum directly set onto encoder's shaft
 Any incremental **STANDARD ENCODER** with
 flange of Ø 58 mm or **EURO ENCODER ES 381** can
 be used



Inkrementaler Weggeber PLE 58

Linear Motion Transducer for 1500 mm range, with STANDARD INCREMENTAL ENCODER

Used encoder

Used encoder
 Standard Encoder EE 58

Type explanation

PLE 58-15-10/EE58-6-1500-05-D-RC12	
Measuring range	15 = 1.500 mm
Number of turns of the encoder shaft	10
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	$\leq 100 \text{ ms}^{-2}$
Side movement of cable	$\leq 3^\circ$
Weight	ca. 0,5 kg

Environmental conditions

Vibration	100 ms^{-2} (20 ... 2000 Hz)
Shock	1000 ms^{-2}
Operating temperature	0 ... +70°C
Storage temperature	-30 ... +80°C
Atmospheric humidity	$\leq 95\%$ r.h.
Protection class	IP 65 (Standard Encoder EE 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

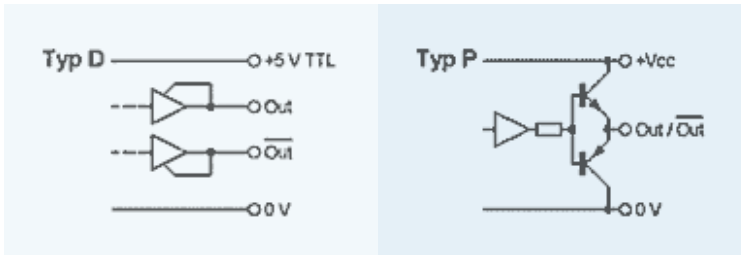
2) nur bei Vcc = 5 VDC TTL

Connector 10 pins MIL

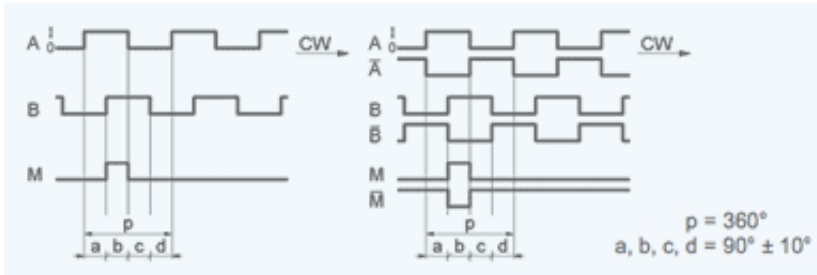
Connection	Signal
Pin A	Signal B+
Pin B	Signal A+
Pin C	Signal M+
Pin D	+Vcc
Pin E	+Vcc Sense
Pin F	0 V GND
Pin G	Shield
Pin H	Signal B- ¹⁾
Pin I	Signal A- ¹⁾
Pin J	Signal M- ¹⁾

1) nur bei 6 Ausgangskanälen

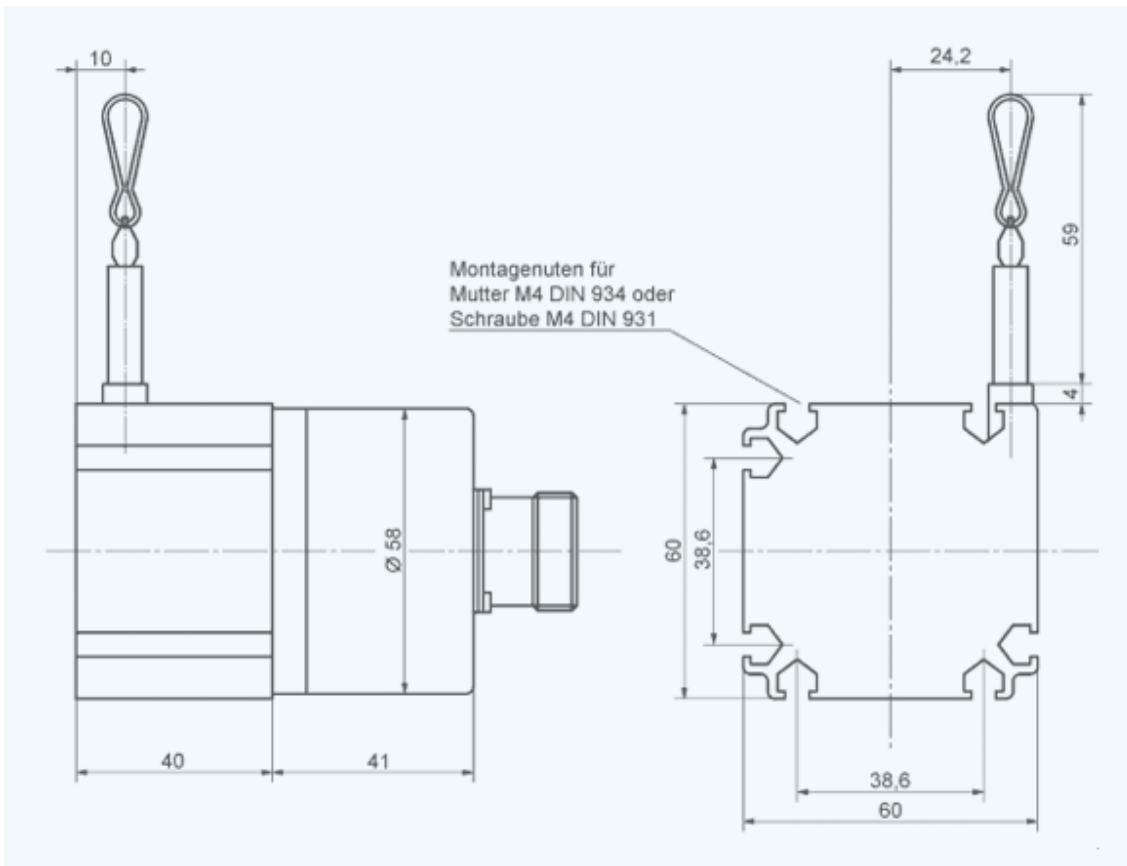
Output driver



Output channels / Output signals



Outline drawing



Version ZE 609-206 · Subject to change