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	? 100 ms^{-2}
Side movement of cable	? 3°
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	? 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	Vcc = 5 VDC ±5% Vcc = 10...30 VDC
Power consumtion	200 mA max.
Output frequency	? 300 kHz (Output D) ? 160 kHz (Output P)
Signal level	High > Vcc -2 V Low < 0,5 V
Load capacity of the outputs	20 mA

Cable	
Wire colour	**Signal**
Brown 0,5 mm²	+Vcc
Blue	+Vcc Sense [1]
White 0,5 mm²	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 pinsBinder	
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

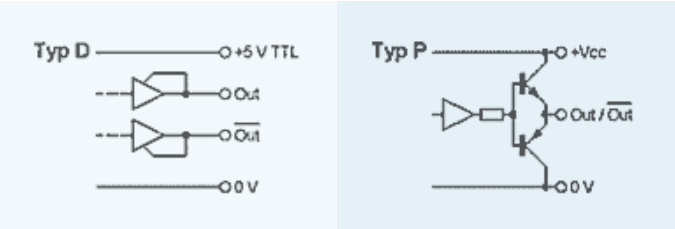
Connector 12 pins M23	
Connection	**Signal**
Pin 1	Signal B- [1]
Pin 2	+Vcc Sense [2]
Pin 3	Signal M+
Pin 4	Signal M- [1]
Pin 5	Signal A+
Pin 6	Signal A- [1]
Pin 7	N.C.
Pin 8	Signal B+
Pin 9	Shield
Pin 10	0 V GND
Pin 11	0 V Sense
Pin 12	+Vcc

1) nur bei 6 Ausgangskanälen
2) nur bei Vcc = 5 VDC TTL

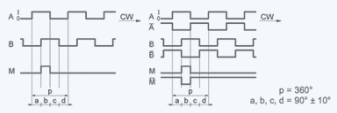
Connector 10 pins MIL	
Connection	**Signal**
Pin A	Signal B+
Pin B	Signal A+
Pin C	Signal M+
Pin D	+Vcc
Pin E	+Vcc Sense
Pin F	0 V GND
Pin G	Shield
Pin H	Signal B- [1]
Pin I	Signal A- [1]
Pin J	Signal M- [1]

1) nur bei 6 Ausgangskanälen

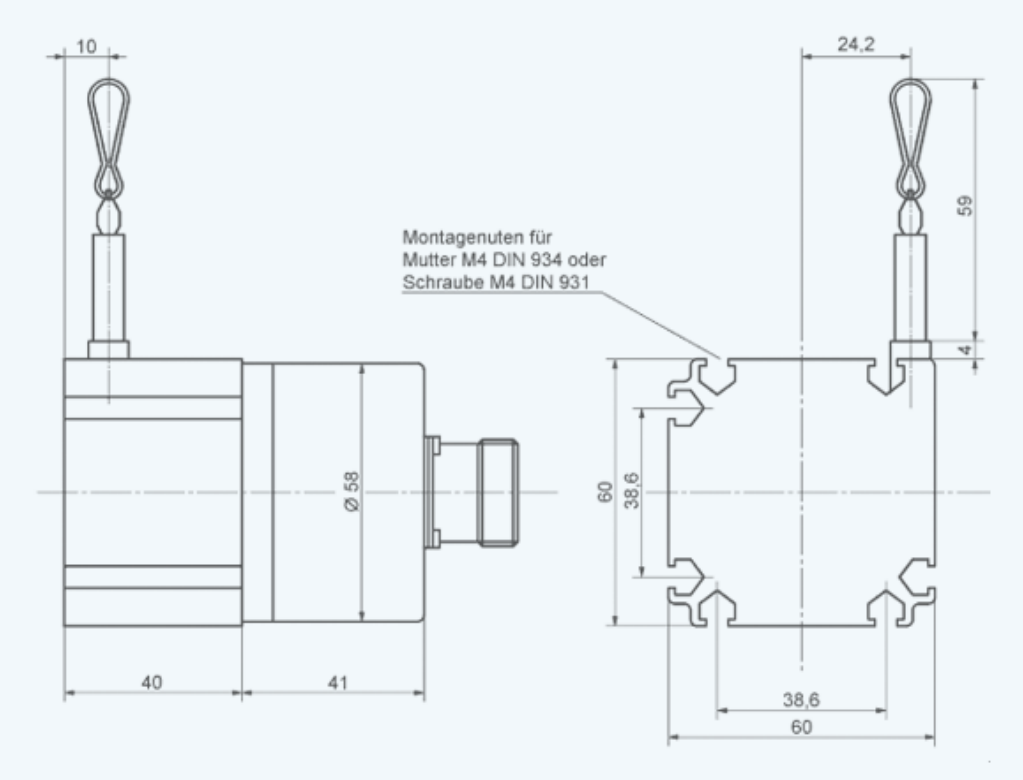
Output driver



Output channels / Output signals



Outline drawing



Version ZE 609-206 · Subject to change

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