



Very compact design, aluminium case with sealed ball bearings, protection IP 65
Flexible stainless steel cable Ø 0.5 mm
Strong spring mechanics
Precision cable drum
With MINI ENCODER ES 28



Mini Weggeber WES 428

Linear Motion Transducer for 1000 mm range with Incremental Encoder ES 28 of high protection IP 65

Used encoder

Used encoder
Mini Encoder ES 28

Type explanation

WES 428-10-10/ES28-6-1500-05-D-R	
Measuring range	=
Encoder type	Incremental
Case diameter	ø 44 mm
Number of channels	3 = A + B + M 6 = AA + BB + MM
Supply voltage	05 = 5 VDC ± 5% 12 = 12 VDC ± 10% 24 = 24 VDC ± 10%
Output driver	D-RS422 C R
Position of connection	R

Technical data

Mechanical data

Acceleration of cable	? 500 ms ⁻²
Side movement of cable	? 3°
Weight	? 0,3 kg

Environmental conditions

Operating temperature	-10 ... +70°C
Storage temperature	-30 ... +80°C
Atmospheric humidity	? 85% r.h.
Protection class	IP 65

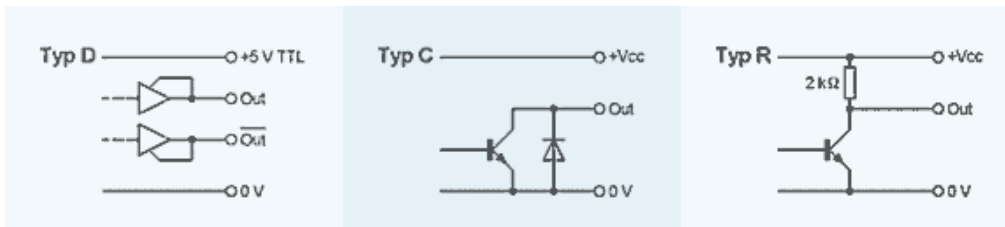
Electrical data

Scanning type	Optical, without contact
Transmitter, infrared	LED
Receiver	Photo-Transistor
Supply voltage	V _{cc} = 5 VDC ±5% V _{cc} = 12 VDC ±10% V _{cc} = 24 VDC ±10%
Power consumption	80 mA typ.
Output frequency	? 150 kHz
Signal level	High > V _{cc} -1 V Low < 0,5 V (20 mA)
Load capacity of the outputs	20 mA
Dielectric strength of outputs	+50 V

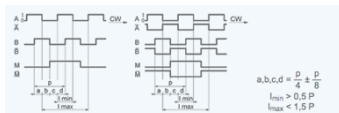
Cable	
Wire colour	Signal
Red	0 V GND
Black	A
Green	B
White	M
Yellow	N.C.

Cable	
Wire colour	Signal
Red	0 V GND
Black	A+
Green	B+
White	M+
Yellow	N.C.
Shield	Blue
Blue	A-
Grey	B-
Orange	M-

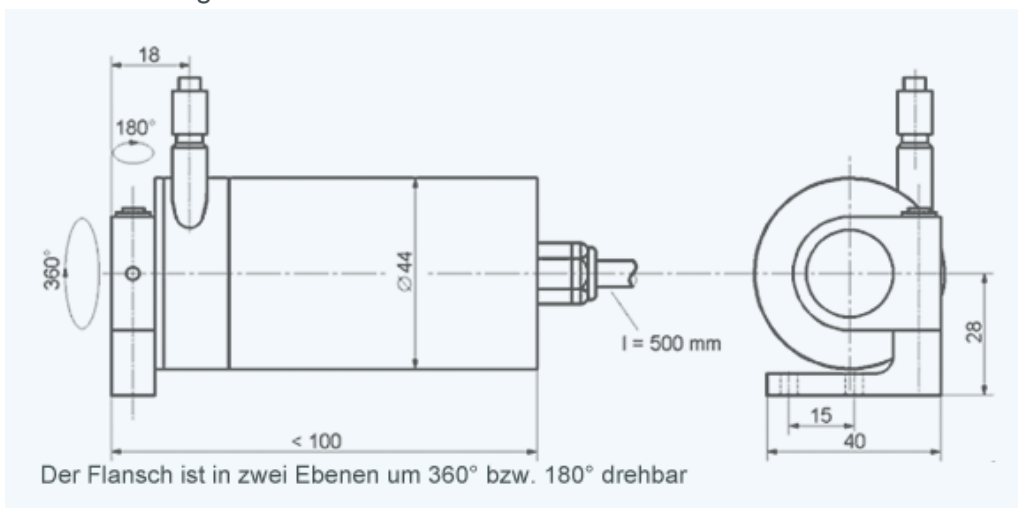
Output driver



Output channels / Output signals



Outline drawing



Version ZE 604-810 · Subject to change

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