



Very compact and simple low-cost type
 Flexible stainless steel cable Ø 0,6 mm
 Strong spring mechanics
 Precision cable drum
 Any Multi-turn Standard Absolute Encoder
 of Ø 58 mm can be used



Absolut Weggeber PCA 180

Linear Motion Transducer with 20.000 and 30.000 mm range with Standard Absolute Encoder

Used encoder

Used encoder

- Absolut Encoder EAM 57 / EAMS 57 SSI
- Absolut Encoder EAM 58 Interbus
- Absolut Encoder EAM 58 Profibus
- Absolut Encoder EAM 58 CANopen® / Device Net
- Absolut Encoder EAM 58 / EAMS 58 Ethernet Powerlink

Type explanation

PCA 180-300-20/EAM57-25G-30-D-SC12

Measuring range	200 = 20000 mm 300 = 30000 mm
Number of turns of the encoder shaft	20
Encoder type	Absolute
Number of bits	24 = 12 bits x 4096 turns 25 = 13 bits x 4096 turns 28 = 16 bits x 4096 turns
Supply voltage	30 = 10 ... 30 VDC
Interface	IBS = Interbus PB = Profibus CO = CANopen® DN = Device Net PL = ETHERNET Powerlink
Output driver	D-SSI DI
Position of connection	R S
Connector	C12 = 12 pins M23

Technical data

Mechanical data

Acceleration of cable	? 100 m/s ²
Side movement of cable	? 3°
Weight	ca. 5,2 kg (PCA180-200) ca. 6,2 kg (PCA180-300)

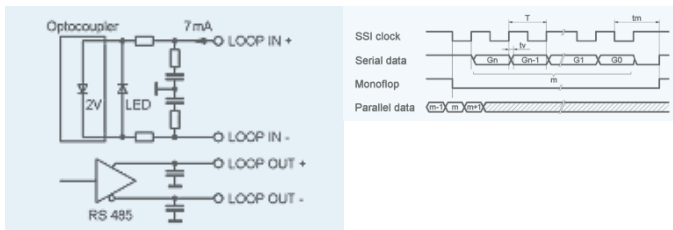
Environmental conditions

Vibration	100 m/s ² (20 ... 2000 Hz)
Shock	300 m/s ² (12 msec)
Operating temperature	0 ... +70°C
Storage temperature	-40 ... +85°C
Atmospheric humidity	< 95% r.h.
Protection class	Seilzumechanik Encoder

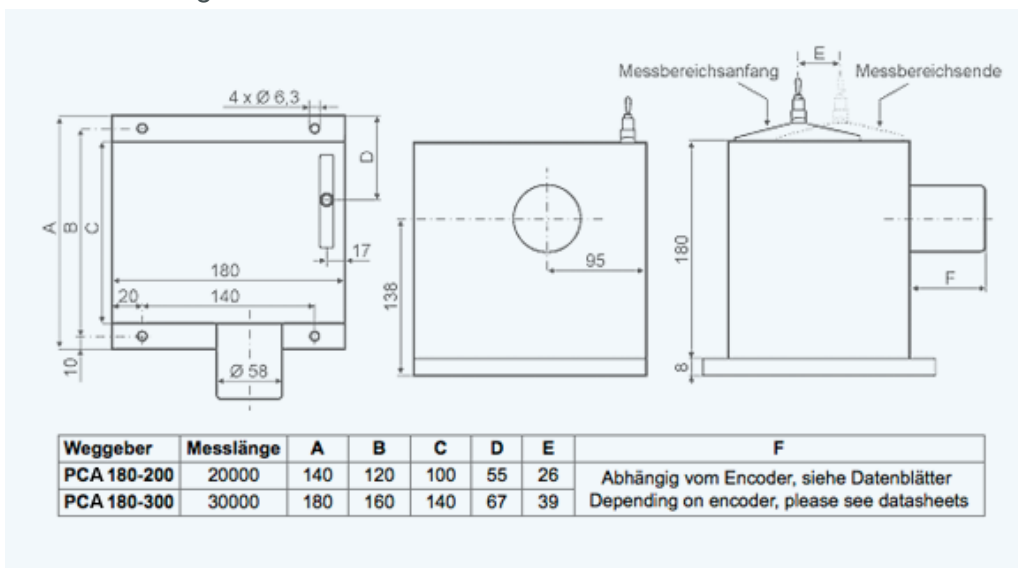
Electrical data

Scanning type	Optical, without contact
Transmitter, infrared	LED
Receiver	Photo-Array
Scanning frequency LSB	800 kHz
Supply voltage	V _{cc} = 10 ... 30 VDC
Power consumption	? 180 mA (V _{cc} = 24 VDC)

Channel schematic



Outline drawing



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