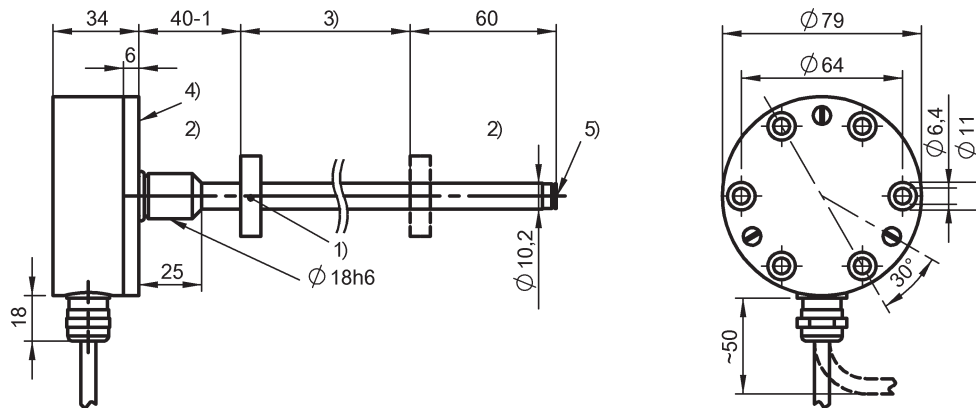




1) Not incl. in scope of del. 2) Unusable area 3) Nom. stroke = Meas. length 4) Mounting surface 5) Internal thread M4x4/6 deep

- Series Compact Rod
- SSI-Interface

**General attributes**

Approvals / Conformity	CE
Cable protective system	cULus
Enclosure Type per IEC 60529	No
Generation	IP68
No of magnets, factory setting	Generation 5
Polarity reversal protected	1 ST
	Yes

Electrical attributes

Connection type	Cable
Count direction	Rising
Current draw (at 24 V DC)	≤ 90 mA
For dynamic loop applications	No
Inrush current	≤ 3 A / 0.5 ms
Interface	SSI-Interface
Interface group	Digital
Non-linearity max.	±2 LSB
Number of bits	25 Bit
Number of magnets max.	1 ST
Operating voltage UB max. DC [V]	28.0 V
Operating voltage UB min. DC [V]	20.0 V
Output code	Gray
Output signal	synchronous serial
Output signal adjustable	No
Overvoltage protected	Yes
Potential isolation	Yes
Ripple	0.5 Vpp
SSI-Clock frequency max.	1000 kHz
Voltage resist (GND – housing)	500 V DC

Mechanical attributes

Nominal stroke	850 mm
Ambient temperature Ta max.	85 °C
Ambient temperature Ta min.	-40 °C
Bending radius drag chain	≥ 15 x cable diameter
Bending radius fixed cable	≥ 5 x cable diameter
Bending radius tensioned cable	≥ 15 x cable diameter
Cable diameter max.	6.70 mm
Cable diameter min.	6.00 mm
Cable jacket material	PUR
Cable length	10.00 m

Cable temp. max. (fixed)	90 °C
Cable temp. max. (moved)	90 °C
Cable temp. min. (fixed)	-40 °C
Cable temp. min. (moved)	-5 °C
Cable/connector out	Radial
Conductor cross-section	0.25 mm²
Drag chain compatible	Yes
E module	200 kN/mm²
EN55016-2-3 (emission)	Industrial sector
EN60068-2-27 (shock)	100 g / 6 ms
EN60068-2-29 (contin. shock)	100 g / 2 ms
EN60068-2-6 (vibration)	12 g, 10...2000 Hz
EN60068-2-64 (noise)	5 g, 10...2000 Hz
EN61000-4-2 (ESD)	Severity Level 3
EN61000-4-3 (RFI)	Severity Level 3
EN61000-4-4 (Burst)	Severity Level 3
EN61000-4-5 (Surge)	Severity Level 2
EN61000-4-6 (HF fields)	Severity Level 3
EN61000-4-8 (magnetic fields)	Severity Level 4
Flame resistant	IEC 60332-1
Flange material	Stainl. steel 1.4404 or 1.4571
Housing material	Stainless steel 1.4305
Mounting type	Flange Ø18h6 plus holes
Null point	40.0 mm
Number of conductors	7
O-ring material	Viton
Offset mounting surface	No
Outer tube material	Stainless steel 1.4571
Pressure resistance	≤ 600 bar
Relative humidity	< 90 %, non-condensing
Repeat accuracy	±1 LSB
Resolution	100 µm
Sampling rate (length-depend.)	1 kHz, standard
Speed max., detectable	10 m/s
Storage temperature max.	100 °C
Storage temperature min.	-40 °C
Style	Series Compact Rod
TK, typ. (at 50 % of 500 mm)	≤ 35 ppm/K
Traverse speed max(drag chain)	4.5 m/s
Version	Type K
With O-ring	Yes

Micropulse transducer

BTL5-S176-M0850-K-K10
BTL16WL

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colour	
YE	+Clk
GY	+Data
PK	-Clk
GN	-Data
BU	GND
BN	+24 V DC
WH	NC