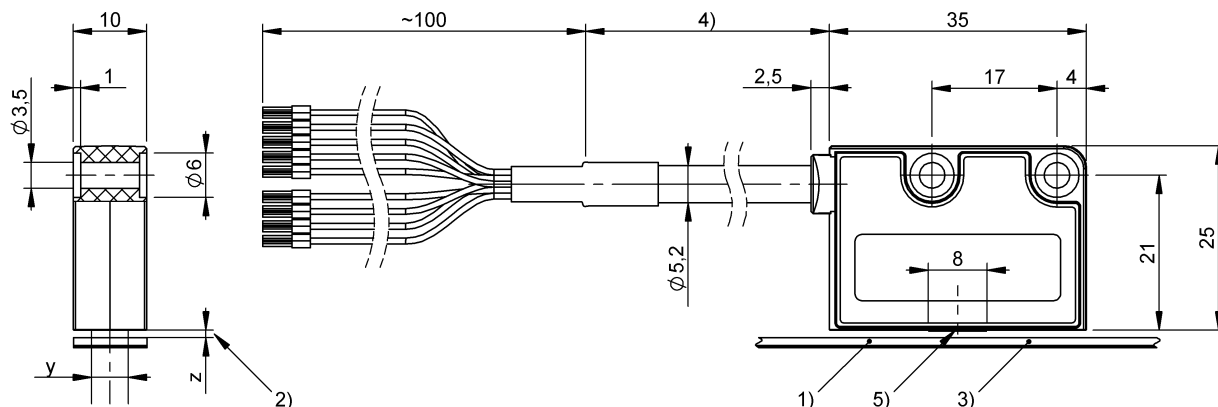




1) not included in scope of delivery, 2) Distance to tape, 3) Tape, 4) Cable length, 5) Active measurement surface



Basic features

Additional features 03	Real-time capable
Application	linear/rotary motion
Approval/Conformity	cURus CE EAC WEEE
Measuring principle	incremental measuring system
Series	S2C

Electrical connection

Bending radius min., fixed cable	5 x D
Bending radius min., flexible cable	15 x D
Cable diameter D	4.9...5.2 mm
Cable length L	5 m
Conductor cross-section	0.08 mm ²
Connection	Cable, 5 m, PUR
Connection type	Cable, 5 m, PUR
Connection version	axial
Number of conductors	8
Polarity reversal protected	yes

Electrical data

Current consumption max. at 24 V DC	80 mA
Operating voltage U_B	10...30 VDC
Overvoltage protection	no
Switch-on delay max.	500 ms

Environmental conditions

Altitude max.	2000 m
Ambient temperature	-20...80 °C
Cable temperature, fixed routing	-40...80 °C
EN 55016-2-3, Radiation	Industrial areas
EN 60068-2-27, Continuous shock	100 g, 2 ms
EN 60068-2-27, Shock	100 g, 6 ms
EN 60068-2-6, Vibration	12 g, 10...2000 Hz
EN 61000-4-2, ESD	Severity Level 3
EN 61000-4-3, RFI	Severity Level 2
EN 61000-4-4, Burst	Severity Level 3
EN 61000-4-5, Surge	Severity Level 2
EN 61000-4-6, High-frequency fields	Severity Level 3
EN 61000-4-8 Magnetic fields	Severity Level 4
Ext. magnetic fields max., in operation	1 mT (no effect)
Protection degree	IP67
Relative humidity	≤ 90 %, non-condensing
Storage temperature	-30...85 °C
Temperature coefficient, overall system	10.5 ppm/K

Functional safety

MTTF (40 °C)	692 a
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Material

Cable flame-resistant	UL758/UL1581
Housing material	PBT
Material jacket	PUR

Mechanical data

Dimension	10 x 25 x 35 mm
Lateral offset (Y)	±4 mm
Mounting	Through-hole 3.5 mm
Pitch max.	±1.0 °
Pole width	10 mm
Procedure direction	Lengthwise to tape
Roll max.	±3.0 °
Weight	11 g (excluding cable)
Yaw max. ±	3.0 °

Output/Interface

Differential signals	no
Error signal	no
Interface	Digital A/B (HTL)
Reference signal	without reference signal
Signal sequence	A before B = rising

Range/Distance

Edge separation min.	24 µs
Interpolation factor	100
Non-linearity max.	±400 µm (z=1...5 mm, y=±2 mm)
Non-linearity typ.	±550 µm (z=0.01...6.5mm, y=±4mm)
Read distance	0.01...6.5 mm
Repeat accuracy	≤ 100 µm
Resolution	100 µm (edge separation A/B)
Traverse speed max.	3.28 m/s

Wiring Diagrams

Color	Signal
WH	+A
BN	NC
GN	+B
YE	NC
GY	NC

Color	Signal
PK	NC
BU	GND
RD	V DC
Shield	Shield