



1) Not incl. in scope of del. 2) Unusable area 3) Nom. stroke = Meas. length

- Series Profile
- Quadrature-Interface



General attributes

Approvals / Conformity	cURus
	CE
Enclosure Type per IEC 60529	IP67
Generation	Generation 5
Polarity reversal protected	Yes
MTTF	79 a

Electrical attributes

Connection type	Cable
Current draw (at 24 V DC)	≤ 100 mA
For dynamic loop applications	No
Interface	Quadrature-Interface
Interface group	Digital
Non-linearity max.	±100 µm
Number of magnets max.	1 ST
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	10.0 V
Output Mode	Free-Running
Output signal	Incremental
Output signal adjustable	No
Overvoltage protected	Yes
Programming inputs	Low-active
Quadrature Frequency	208 kHz
Update rate	1 ms
Voltage resist (GND – housing)	500 V DC

Mechanical attributes

Nominal stroke	90 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.	8.50 mm
Cable diameter min.	8.00 mm
Cable jacket material	PVC
Cable length	5.00 m
Cable temperature max.	90 °C

Cable temperature min.	-40 °C
Cable/connector out	Axial
Conductor cross-section	0.20 mm²
Drag chain compatible	Yes
Drag chain length max.	5 m
EN55016-2-3 (emission)	Indust. and residential area
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
Housing material	Anodized aluminum
Mounting type	Mounting clamps
Nominal stroke	90 mm
Null point	73.0 mm
Number of conductors	10
Profile height	36.8 mm
Relative humidity	< 90 %, non-condensing
Repeat accuracy	≤ 5 µm
Resolution	0.0001"
Storage temperature max.	100 °C
Storage temperature min.	-40 °C
Style	Series Profile
Version	Type P

Remarks

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Micropulse transducer

BTL5-Q5261-M0090-P-KA05

Order code: BTL12RK

Color	
GN	A+
WH/GN	A-
GY	B+
WH/GY	B-
OR	Z+
WH/OR	Z-
WH/BU	STRB Input
BN	10...30 V DC
BU	GND
WH/BN	NC