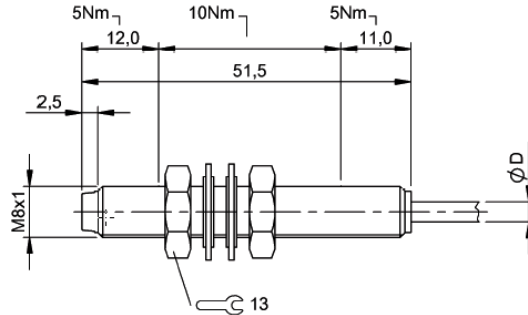


Inductive distance sensor
M8/ Cable, 10m
Ordering code: VMS02



Characteristic data

Rated operating distance S_n	1,5 mm
Operating voltage	15...30 V DC
Power-on indicator	No
Adjustment indicator	No
Short-circuit protected	Yes
Protected against polarity reversal	Yes
Protected against reverse connection	Yes

Electrical data

Electrical version	DC, direct current
Rated operating voltage U_e	DC 24 V
Ripple max. (% of U_e)	15 %
Rated frequency, AC	DC
Rated insulation voltage U_i	250 AC V
No-load current max. I_o at U_e	8 mA
Switching function	Voltage falling on approach
Switching output	PNP / Analog
Output voltage at S_I min.	0 V
Output voltage at S_I max.	10 V
Output voltage at S_e	5 V
Slope U	5 V/mm
Limit frequency -3dB	1000 Hz

Mechanical data

Rated operating dist. S_e	1,5 mm
Linearity range	0,5...2,5 mm
Cable short designation	Li9Y11Y-O
Conductor cross-section	0.14 mm ²
Number of conductors	3
Housing material	Stainless steel
Sensing surface material	PBT
Cable jacket material	PUR
Cable diameter D max.	3 mm
Response time	1 ms
Measuring speed max.	10 m/s
Ambient temperature	-10...70 °C
Max. temp. drift from end value	±5.0 %
Temperature coefficient min.	0.0 µm/K
Temperature coefficient max.	-8.0 µm/K
Temperature coefficient typ.	-1.5 µm/K
Repeat accuracy per BWN	±10.0 µm
Repeat acc. R of end value max.	3 %
Tightening torque max.	5 Nm / 10 Nm

Basic data

Basic standard	BWN PR 44
	IEC 60947-5-2
	IEC 60947-5-7
Degree of protection as per IEC 60529	IP67
Protection class	II
Degree of contamination	3
Shock rating Shock,	half-sinus, 30 gn, 11ms
Vibration rating 55 Hz,	1 mm ampl., 3x30 min

Remarks

Values referenced to axial approach of St 37 target. For other materials correction factors are applied.

