

M 12
SI = 0,5...2 mm
0...10V
shielded

Common Data

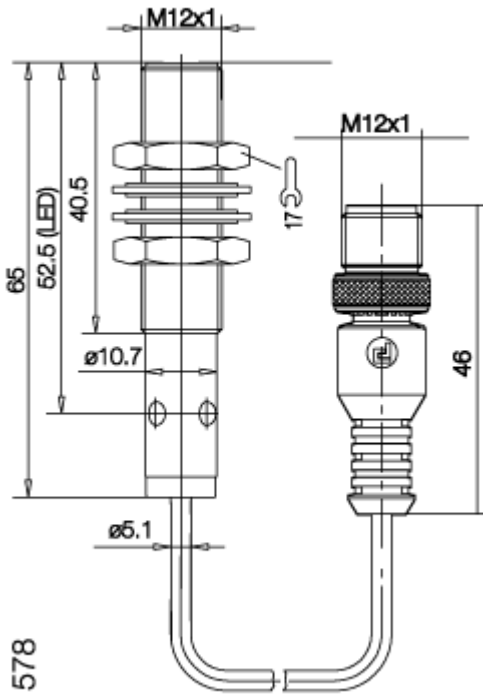
Mounting In steel		shielded
Linearity range SI	mm	0,5...2
Rated operating distance Se	mm	1,25
Repeat accuracy		± 8 µm
Linearity		≤ ± 45 µm
Limit frequency (-3dB)		500 Hz
Measuring velocity		≤ 40 m/s
Response time		0,5 ms
Temperature coefficient TK	typ.	-1 µm/K
In optimized range	min.	-0,5 µm/K
from +10...+50°C	max.	-2 µm/K
Max. non-linearity	%	± 3% from Ua max.
Max. working range shift	mm	± 0,125
Adjusting indication		ja
Ambient temperature range	°C	-10...+70
Time delay before availability	ms	< 1ms

Mechanical Data

Housing size	mm	cyl. M 12
Measurements BxHxT or DxT	mm	M12x1 x 65
Housing material		CuZn nickel plated
Material of sensing face		PA12
Degree of protection	IP	IP67
Connection		Connector S4
Cable type		LifY-Y-11Y-O 3x0,14mm ² 0,2m long
Recommended connector		BKS-S19-1

Electrical Data

Current type		DC
Wiring		3-Wire
Output signal		0...10V
Rated operational voltage	V	24 DC
Rated insulation voltage UI	V	250 V AC
Ripple	%	≤ 15% from Ue
Output resistance		> 2kOhm
No-load supply current	mA	≤ 10
Short circuit protection		yes
Protected against polarity rev		yes



Approvals



If not differently indicated,
all values by IEC 947-5-2
(DIN EN60947-5-2)
Specifications subject to change

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