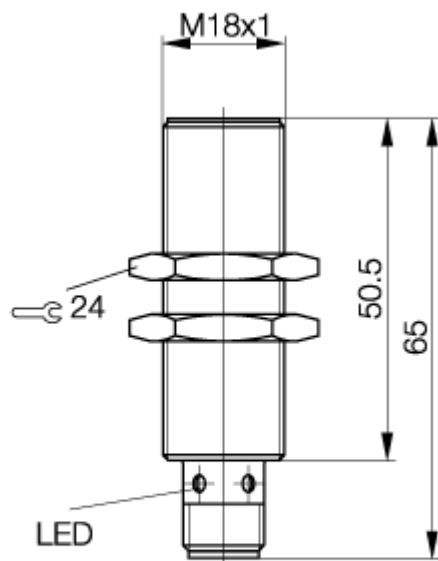


M 18
SI = 1...5 mm
0...10V
shielded



Common Data

Mounting in steel		shielded
Linearity range SI	mm	1...5
Rated operating distance Se	mm	4
Repeat accuracy		$\pm 8 \mu\text{m}$
Limit frequency (-3dB)		500 Hz
Measuring velocity		$\leq 40 \text{ m/s}$
Response time		1 ms
Temperature coefficient TK	typ.	$-2 \mu\text{m/K}$
in optimized range	min.	$+1 \mu\text{m/K}$
from $+10...+50^\circ\text{C}$	max.	$-8 \mu\text{m/K}$
Max. non-linearity	%	$\pm 3\%$ from $U_a \text{ max.}$
Adjusting indication		ja
Ambient temperature range	$^\circ\text{C}$	$-10...+70$
Time delay before availability	ms	<1ms

Mechanical Data

Housing size	mm	cyl. M 18
Measurements BxHxT or DxT	mm	M18x1 x 65
Housing material		CuZn nickel plated
Material of sensing face		PBT
Degree of protection	IP	IP67
Connection		Connector S4
Recommended connector		BKS-S19-1/BKS-S20-1

Electrical Data

Current type		DC
Wiring		3-Wire
Output signal		0...10V
Rated operational voltage	V	24 DC
Rated insulation voltage U_i	V	250 V AC
Ripple	%	$\leq 15\%$ from U_e
Output resistance		$> 2 \text{ k}\Omega$
No-load supply current	mA	≤ 10
Short circuit protection		yes
Protected against polarity rev		yes

PX1356



Approvals



Utilization categories DC 13
Insulation class II

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

Balluff GmbH
Postfach 1160
73761 Neuhausen
Telefon (07158) 173-0
Telefax (07158) 5010

07.07.2005 / Online-Information