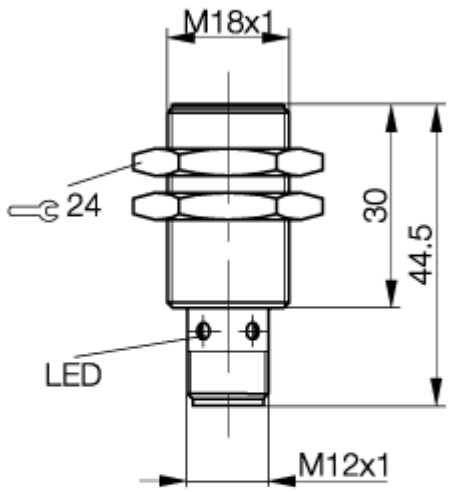
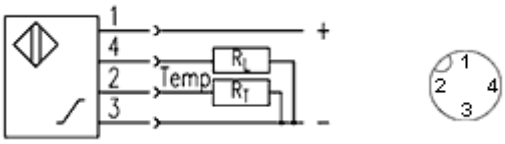
Analog Sensors
BAW M18ME-UAE50B-S04G-K

BALLUFF

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



PX1385



Approvals

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

Common Data

Mounting in steel		shielded
Linearity range Sl	mm	1...5
Rated operating distance Se	mm	3
Repeat accuracy		± 8 µm
Linearity		≤ ± 120 µm
Limit frequency (-3dB)		500 Hz
Measuring velocity		≤40 m/s
Response time		1 ms
Temperature coefficient TK	typ.	-1 µm/K
in optimized range	min.	0 µm/K
from +10...+50°C	max.	+4 µm/K
Max. non-linearity	%	±3% from Ua max.
Max. working range shift	mm	±0,3
Adjusting indication		ja
Ambient temperature range	°C	-10...+70
IEC-Code		|1A18SA2
Time delay before availability	ms	<1ms
Particular characteristics		with temperature output

Mechanical Data

Housing size	mm	M 18
Measurements BxHxT or DxT	mm	M18x1 x 44,5
Housing material		CuZn nickel plated
Material of sensing face		PBT
Degree of protection	IP	IP67
Connection		Connector
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 Ui	V	75 V AC
Ripple	%	<= 10% from Ue
Output resistance		>2kOhm
No-load supply current	mA	<= 10
Short circuit protection		yes
Protected against polarity rev		yes

EMV

ESD/RFI/Burst/IVW	4/2/4/3
Emission	Gr.1 Cl.B

19.05.2004 / Online-Information