Baumer
Passion for Sensors

Inductive distance measuring sensors

IR18.D08L-Q60.UAME.7BF

Inductive distance measuring sensors - linearized

Article number: 11130478

overview

- 0 … 8 mm
- voltage output / push-pull
- external Teach-in
- connector M12
- -25 … 75 °C
- IP 67

CE c(UL)us LISTED

Technical data

general data

mounting type	quasi-flush
special type	2 adjust. switching points linearized
measuring distance Sd	0 … 8 mm
sensitivity	1,25 V/mm
resolution	< 0,002 mm (stat.) < 0,006 mm (dynam.)
repeat accuracy	< 0,015 mm
adjustment	external Teach-in
teach	1-point analog, window digital, factory reset
linearity error	± 32 µm
temperature drift	± 3 % (Full Scale)
output indicator	LED red
Teach-Feedback	LED yellow

electrical data

response time (factory characteristic)	< 1 ms
voltage supply range +Vs	12 … 36 VDC

electrical data

current consumption max. (no load)	15 mA
output circuit	voltage output / push-pull
output signal	0 ... 10 VDC
load resistance	> 4000 Ohm
output current	< 100 mA (push-pull)
short circuit protection	yes
reverse polarity protection	yes

mechanical data

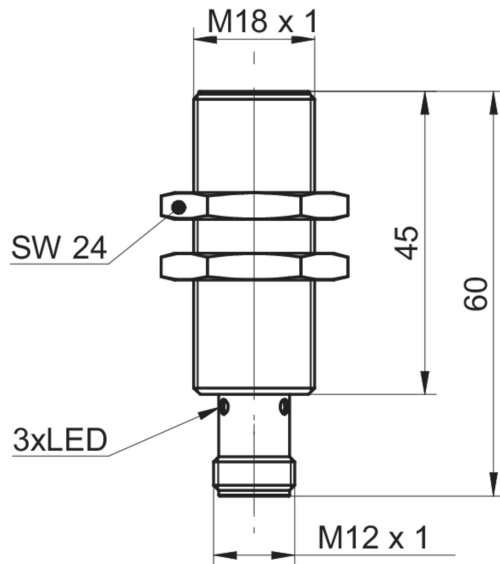|	
type	cylindrical threaded
housing material	brass nickel plated
dimension	18 mm
housing length	60 mm
connection types	connector M12
tightening torque max.	40 Nm

ambient conditions

operating temperature	-25 … +75 °C
protection class	IP 67

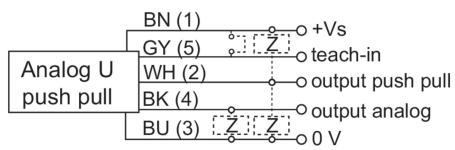## remarks

- external Teach-in
- integrated analog- and switching output
- linear analog output

dimension drawing

M18 x 1

SW 24

45

60

3xLED

M12 x 1

connection diagram

BN (1) — +Vs
GY (5) — teach-in
WH (2) — output push pull
BK (4) — output analog
BU (3) — 0 V

Analog U push pull

pin assignment

output push pull   +Vs
        2   1
        3   4
       0V   output analog

5 teach-in

2019-11-26