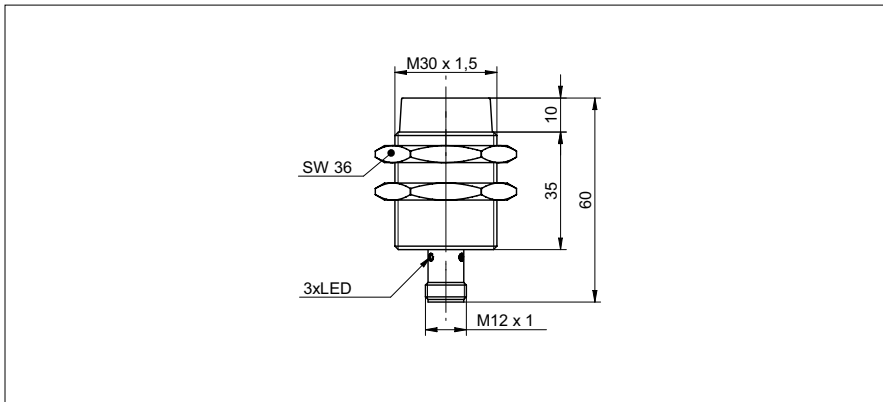


# Inductive distance measuring sensors

**IR30.D24L-11179051**

**dimension drawing**



**general data**

mounting type	non-flush
special type	linearized
measuring distance Sd	0 ... 24 mm
sensitivity	0,67 mA/mm
resolution	< 0,005 mm (stat.) < 0,01 mm (dynam.)
repeat accuracy	< 0,02 mm
adjustment	external Teach-in
teach	1-point analog, 2-point analog, factory reset
linearity error	± 480 µm
temperature drift	± 6 % (Full Scale)

**electrical data**

response time (factory characteristic)	< 5 ms
voltage supply range +Vs	8 ... 36 VDC
current consumption max. (no load)	20 mA
output circuit	current output
output signal	4 ... 20 mA
load resistance	< 50 Ohm/V * Vs - 250 Ohm > 500 Ohm (Vs = 30 ... 36 VDC)
short circuit protection	yes
reverse polarity protection	yes

**mechanical data**

type	cylindrical threaded
housing material	brass nickel plated
dimension	30 mm
housing length	60 mm
connection types	connector M12
tightening torque max.	100 Nm

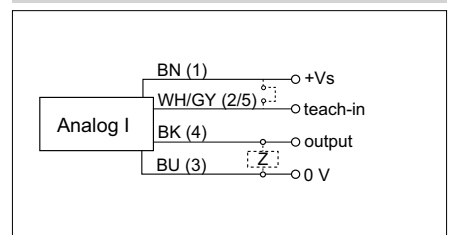
**ambient conditions**

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

**photo**



**connection diagram**



- external Teach-in
- linear analog output