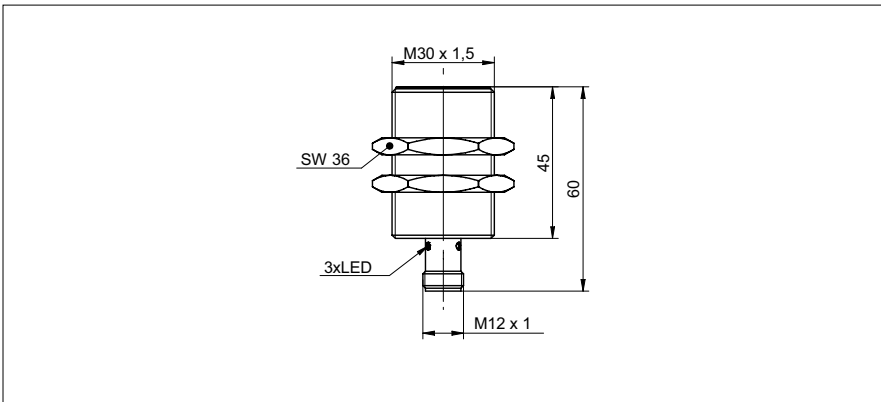


Inductive distance measuring sensors

IR30.D18S-11179024

dimension drawing



general data

mounting type	flush
measuring distance Sd	0 ... 18 mm
resolution	< 0,005 mm (stat.) < 0,01 mm (dynam.)
repeat accuracy	< 0,02 mm
linearity error	± 800 µm (S = 4,5 ... 13,5 mm) ± 2400 µm (S = 0 ... 18 mm)
temperature drift	± 6 % (Full Scale)

electrical data

response time (factory characteristic)	< 2 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

