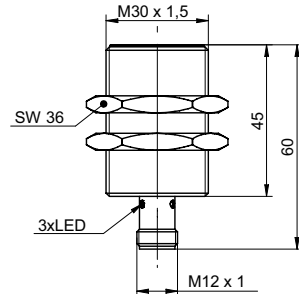


Inductive distance measuring sensors

IR30.D18S

sample 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
short circuit protection	yes
reverse polarity protection	yes

voltage output

voltage supply range +Vs	12 ... 36 VDC
current consumption max. (no load)	10 mA
output signal	0 ... 10 VDC
load resistance	> 4000 Ohm

current output

voltage supply range +Vs	8 ... 36 VDC
current consumption max. (no load)	20 mA
output signal	4 ... 20 mA
load resistance	< 50 Ohm/V * Vs - 250 Ohm > 500 Ohm (Vs = 30 ... 36 VDC)

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

sample picture



Inductive distance measuring sensors

IR30.D18S

order reference	output circuit
IR30.D18S-11179024	current output
IR30.D18S-11179023	voltage output