


Sd = 0 ... 3 mm

- very high resolution
- high repeat accuracy
- minimized temperature drift


general data

mounting type	quasi-flush
measuring speed	< 1 mm / ms
repeat accuracy (Sd)	< 1 µm

electrical data

voltage supply range +Vs	15 ... 30 VDC
current consumption max. (no load)	50 mA
output circuit	current output
output signal	0 ... 20 mA
load resistance +Vs min.	< 100 Ohm
load resistance +Vs max.	< 400 Ohm
voltage drop Vd	< 7 VDC
short circuit protection	yes
reverse polarity protection	yes

mechanical data

type	cylindrical threaded
dimension	12 mm
housing length	90 mm
housing material	steel (9 SMn (Pb) 28/36)
material (sensing face)	ceramic
connection types	connector M12

ambient conditions

operating temperature	0 ... +60 °C
protection class	IP 67

connectors and mating connectors

ESG 34SH0200 Connector M12, 3 pin, straight, 2 m

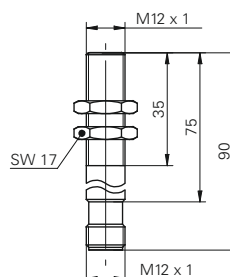
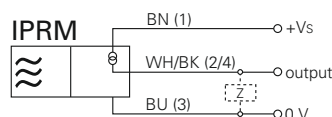
ESW 33SH0200 Connector M12, 3 pin, angular, 2 m

additional cable connectors and field wireable connectors: see accessories

accessories

10151720 Sensofix series 12 round

for details: see accessories section

dimension drawing

connection diagram


order reference	measuring distance Sd	linearity error	temperature drift	resolution (RMS)
IPRM 12I9504/S14	0,5 ... 1,5 mm	± 50 µm	± 10 µm	< 0,01 µm (stat. 10 Hz) < 0,06 µm (dynam. 520 Hz) < 0,004 µm (range center)
IPRM 12I9505/S14	0 ... 2 mm	± 60 µm	± 10 µm	< 0,012 µm (stat. 10 Hz) < 0,065 µm (dynam. 520 Hz) < 0,006 µm (range center)
IPRM 12I9506/S14	0 ... 3 mm	± 150 µm	± 25 µm	< 0,08 µm (stat. 10 Hz) < 0,17 µm (dynam. 520 Hz) < 0,013 µm (range center)