

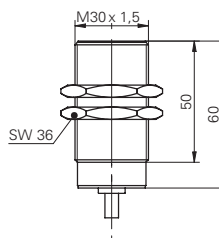


Sd = 5 ... 10 mm

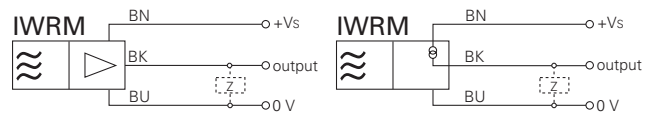


general data	
mounting type	shielded
measuring speed	< 1,5 mm / ms
repeatability	< 0,02 mm
temperature coefficient	1 µm / (K mm)
electrical data	
voltage supply range +Vs	15 ... 30 VDC
residual output ripple	< 0,5 % Vs
short circuit protection	yes
reverse polarity protection	yes
voltage output	
current consumption max.	20 mA
output signal	1 ... 9 VDC
load resistance	> 1000 Ohm
current output	
current consumption max.	35 mA
output signal	4 ... 20 mA
load resistance +Vs min.	< 500 Ohm
load resistance +Vs max.	< 1000 Ohm
mechanical data	
type	cylindrical threaded
housing material	brass nickel plated
dimension	30 mm
housing length	60 mm
connection types	cable
ambient conditions	
operating temperature	0 ... +60 °C
protection class	IP 67

**dimension drawing**



**connection diagrams**



order reference	measuring distance Sd	reference distance	output circuit	linearity error
IWRM 30I9501	5 ... 10 mm	7,1 ... 7,9 mm	current output	± 200 µm
IWRM 30U9501	5 ... 10 mm	7,1 ... 7,9 mm	voltage output	± 200 µm
IWRM 30U9502	5 ... 9 mm	6,7 ... 7,3 mm	voltage output	± 150 µm

IWRM 30 Sd = 5 ... 10 mm Inductive distance measuring sensors AlphaProx



Sd = 0 ... 16 mm

**ANALOG**

- Large measuring distance
- Short response time
- Extended immunity against electrical interference



**general data**

mounting type	quasi shielded
measuring distance Sd	0 ... 16 mm
resolution	< 0,005 mm (stat.) < 0,01 mm (dynam.)
repeatability	< 0,015 mm
linearity error	± 1600 µm
temperature drift	± 5% (Full Scale)

**electrical data**

response time (factory characteristic)	< 2 ms
voltage supply range +Vs	15 ... 30 VDC
short circuit protection	yes
reverse polarity protection	yes

**voltage output**

current consumption max.	20 mA
output signal	0 ... 10 VDC
load resistance	> 1000 Ohm

**current output**

current consumption max.	40 mA
output signal	4 ... 20 mA
load resistance +Vs min.	< 330 Ohm
load resistance +Vs max.	< 1000 Ohm

**mechanical data**

type	cylindrical threaded
housing material	brass nickel plated
dimension	30 mm
housing length	63 mm
connection types	connector M12

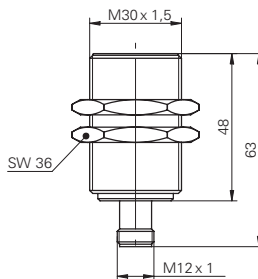
**ambient conditions**

operating temperature	-10 ... +70 °C
protection class	IP 67

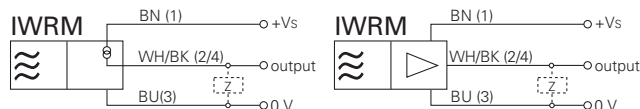
**accessories**

connectors	ES 14, ES 18, ESW 33S, ESG 34S
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**dimension drawing**



**connection diagrams**



**order reference**      **output circuit**

<b>IWRM 30I9704/S14</b>	current output
<b>IWRM 30U9704/S14</b>	voltage output