

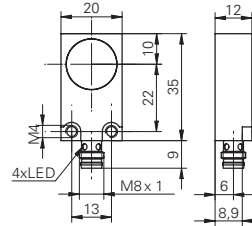


Sd = 2 ... 5 mm

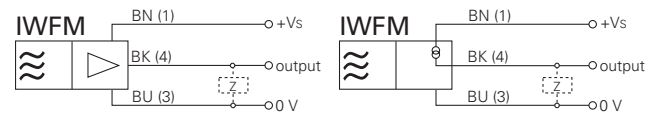


general data	
mounting type	shielded
measuring speed	< 1 mm / ms
repeatability	< 0,01 mm
temperature coefficient	1 µm / (K mm)
electrical data	
voltage supply range +Vs	15 ... 30 VDC
residual output ripple	< 0,5 % Vs
short circuit protection	yes
reverse polarity protection	yes
voltage output	
current 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	rectangular
housing material	brass nickel plated
dimension	20 mm
housing length	35 mm
connection types	connector M8
ambient conditions	
operating temperature	0 ... +60 °C
protection class	IP 67
accessories	
connectors	ESW 31S, ESG 32S

dimension drawing



connection diagrams



order reference	measuring distance Sd	reference distance	output circuit	linearity error
IWFM 20I9501/S35	2 ... 5 mm	3,25 ... 3,75 mm	current output	± 100 µm
IWFM 20I9503/S35	2 ... 3 mm	2,35 ... 2,65 mm	current output	± 60 µm
IWFM 20U9501/S35	2 ... 5 mm	3,25 ... 3,75 mm	voltage output	± 100 µm
IWFM 20U9503/S35	2 ... 3 mm	2,35 ... 2,65 mm	voltage output	± 60 µm



Sd = 0 ... 2 mm

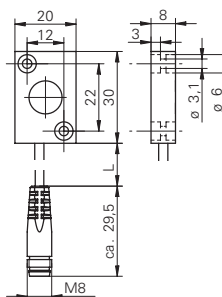
- Small linearity error
- Very short response time
- Thin housing



general data	
mounting type	shielded
measuring distance Sd	0 ... 2 mm
resolution	< 0,001 mm (stat.) < 0,005 mm (dynam.)
repeatability	< 0,01 mm
linearity error	± 40 µm
temperature drift	± 2% (Full Scale)
electrical data	
response time (factory characteristic)	< 0,5 ms
voltage supply range +Vs	15 ... 30 VDC
current consumption max.	20 mA
output circuit	voltage output
output signal	0 ... 10 VDC
load resistance	> 1000 Ohm
short circuit protection	yes
reverse polarity protection	yes
mechanical data	
type	rectangular
housing material	brass nickel plated
dimension	20 mm
housing length	30 mm
connection types	flylead connector M8
ambient conditions	
operating temperature	-10 ... +70 °C
protection class	IP 67
accessories	
connectors	ESW 31A, ESG 32A

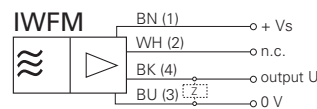
order reference	
IWFM 20U9509/KS35AP	

dimension drawing



standard cable length 200 mm

connection diagram



IWFM 20 Sd = 0 ... 2 mm Inductive distance measuring sensors AlphaProx