

**Inductive Analog
Sensors**



contactless distance and position measurement
distance - way - position - shift - wear - thickness - width - vibration - selection

ans

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ansvietnam.com

sales.ans@ansvietnam.com SENSORS MADE IN GERMANY

Housing size [mm]	M30 / L = 80	M30 / L = 80	M30 / L = 80	M32 / L = 80
Measuring range [mm]	0 - 10	0 - 15	0 - 10	0 - 14
Mounting	f	nf	f	nf
Housing material	PBT	PBT	brass, nickel plated	PTFE
Protection class	IP 67	IP 67	IP 67	IP 68
Type	MKL 010	MKL 015	MKZ 302	MKLT 014
High temperature	yes	yes	yes	yes

Housing size [mm]	PG36 / L = 70	Ø 54 / L = 68	80 x 80 x 40	110 x 110 x 55
Measuring range [mm]	0 - 20	0 - 35	0 - 50	0 - 45
Mounting	f	nf	nf	f
Housing material	brass, nickel plated	PBT	PBT	aluminium
Protection class	IP 67	IP 67	IP 67	IP 67
Type	MKZ 471	MKH 035	MKK 050	MKD 045
High temperature	yes	yes	yes	yes

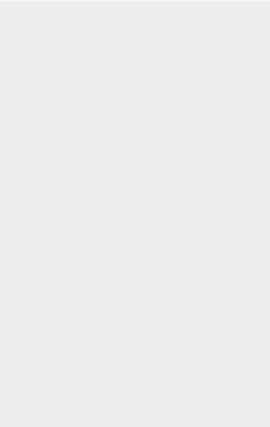
f = flush / nf = non flush

The start and end of the measurement range are freely adjustable within the limits of the measurement range, using two buttons. This makes it possible to exploit the full output signal for smaller intervals as well, or to reverse the working direction. The measurement range stated above describes the axial approximation of a square steel plate with its side length equal to three times the maximum measurement range (for example: measurement range 0 - 50 mm relates to a steel plate with side length of 150 x 150 mm). Distance measurement to a smaller metal object reduces the maximum attainable measuring distance.

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up to 200 mm measuring range and spezial types

120 x 80 x 30	110 x 110 x 43	150 x 150 x 56	280 x 150 x 68	212 x 212 x 58
0 - 60 mm	0 - 70	0 - 100	0 - 120	0 - 140
nf	nf	nf	nf	nf
				
PBT	PBT	PBT	PBT	PBT
IP 67	IP 67	IP 67	IP 67	IP 67
MKRD 060	MKN 070	MKQ 100	MKU 215	MKOA 140
yes	yes	yes	yes	yes

260 x 260 x 120	320 x 320 x 85		150 x 35 x 35	ring sensor Ø 20
0 - 120	0 - 200		radial 0 - 100	Ø 0 - 20
f	nf		nf	
				
stainless steel	PP		PVC / PP	PBT
IP 65	IP 68		IP 67	IP 67
MKZ 120	MKC 200		MKU 015	MKV 020
no	yes		no / yes	yes

The attainable measuring distance is a function of the material of the metal object and can be calculated using the correction factor: **max. possible measuring distance = measurement range x correction factor**

material	metal foil	steel	stainless steel	brass	aluminum	cooper	nickel	cast iron
correction factor	1,2	1	0,5 ... 0,8	0,45	0,4	0,3	0,7	0,93 ... 1,05

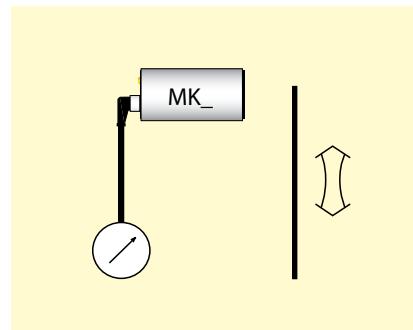
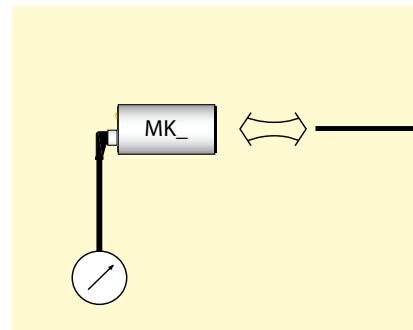
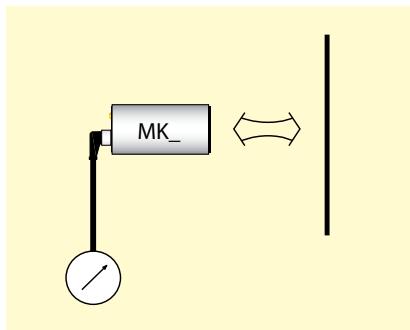
Inductive analogue sensors determine the distance to metal objects or their position, size or material. Proxitron offers the widest variety of robustly constructed designs for standard industrial solutions and complex applications. Their ease of operation enables the measurement range and individual curve shapes to be programmed. Besides the analogue output of the measured value, there is a serial interface which, as well as recording the measured value, also enables parameters to be set and sensor arrays to be constructed in bus operation.

- contactless measurement of the distance to metal objects
- high repeat accuracy
- optimal linearity
- unaffected by contamination
- various analogue outputs
- RS 485 interface
- programmable measurement range and characteristic curve
- versions going up to +100°C available

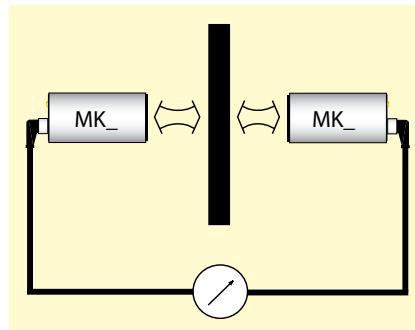
distance

distance

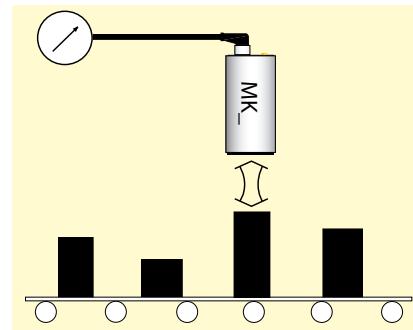
shift



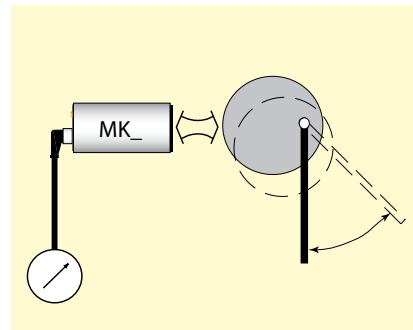
thickness



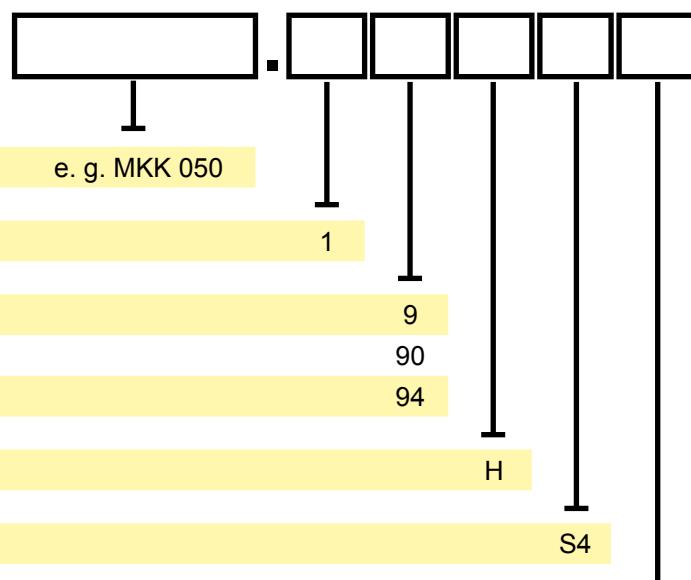
selection



angle of rotation



Type Code



Type (see table previous page)

e. g. MKK 050

Supply voltage 24 V DC

1

Output 0 - 10 V

9

Output 0 - 20 mA

90

Output 4 - 20 mA

94

High temperature version up to +100 °C

H

Plug M12x1

S4

Customer specific version

SA..