

## **Inductive Analog Sensors**



contactless distance and position measurement

distance - way - position - shift - wear - thickness - width - vibration - selection



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	
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Housing material	PBT	PBT	brass, nickel plated	PTFE	
Protection class	IP 67	IP 67	IP 67	IP 68	
Туре	MKL 010	MKL 015	MKZ 302	MKLT 014	
High temperature	yes	yes	yes	yes	

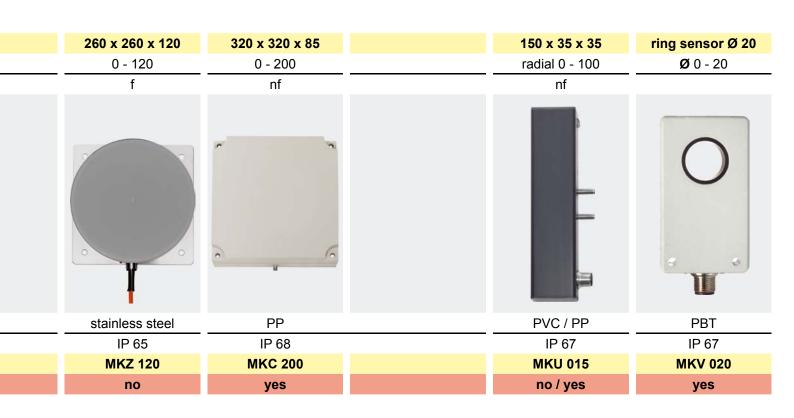
Housing size [mm]	PG36 / L = 70	Ø 54 / L = 68	80 x 80 x 40	110 x 110 x 55	
Measuring range [mm]	0 - 20	0 - 35	0 - 50	0 - 45	
Mounting	f	nf	nf	f	
Housing material	brass, nickel plated	PBT	PBT	aluminium	
Protection class	IP 67	IP 67	IP 67	IP 67	
Туре	MKZ 471	MKH 035	MKK 050	MKD 045	
High temperature	yes	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  $150 \times 150$  mm). Distance measurement to a smaller metal object reduces the maximum attainable measuring distance.







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

