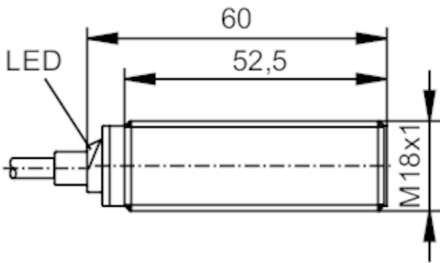




Inductive full-metal sensor

IGK3008BANKG/AM/2M/PUR



Product characteristics		
Electrical design	NPN	
Output function	normally open	
Sensing range [mm]	8	
Housing	Threaded type	
Dimensions [mm]	M18 x 1 / L = 60	
Application		
System	Drag chain suitability; Increased sensing range; Full-metal housing	
Application	Oils and coolants	
Pressure rating	20 bar	2 MPa
Note on pressure rating	sensing face	
Electrical data		
Operating voltage [V]	8.5...60 DC	
Current consumption [mA]	< 10	
Protection class	III	
Reverse polarity protection	yes	
Outputs		
Electrical design	NPN	
Output function	normally open	
Max. voltage drop switching output DC [V]	1.8	
Permanent current rating of switching output DC [mA]	100	
Switching frequency DC [Hz]	100	
Short-circuit protection	yes	
Overload protection	yes	
Monitoring range		
Sensing range [mm]	8	
Real sensing range Sr [mm]	8 ± 10 %	
Operating distance [mm]	0...6.48	



Inductive full-metal sensor

IGK3008BANKG/AM/2M/PUR

Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.6 / aluminum: 0.5 / copper: 0.2	
Hysteresis [% of Sr]		3...15	
Switch-point drift [% of Sr]		-10...10	
Operating conditions			
Ambient temperature [°C]		-40...85	
Protection		IP 65; IP 66; IP 67; IP 68; IP 69K; (IP68 specification: minimum pressure of 0.5 bar for 7 days of continuous immersion)	
Tests / approvals			
EMC	EN 61000-4-2 ESD		4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated		10 V/m
	EN 61000-4-4 Burst		2 kV
	EN 61000-4-6 HF conducted		10 V
	EN 55011		class B
Vibration resistance	EN 60068-2-6 Fc		20 g (10...3000 Hz) / 50 sweep cycles per frequency; 1 octave per minute in 3 axes
Shock resistance	EN 60068-2-27 Ea		100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance	EN 60068-2-27		40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes
Fast temperature changes	EN 60068-2-14 Na		TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles
Salt spray test	EN 60068-2-52 Kb		severity level 5 (4 test cycles)
UL approval	Ta		-25...75 °C
	Enclosure type		Type 1
	voltage supply		Class 2
	UL approval number		A058
	File number UL		E174191
Mechanical data			
Weight [g]	120.55		
Housing	Threaded type		
Mounting	flush mountable		
Dimensions [mm]	M18 x 1 / L = 60		
Thread designation	M18 x 1		
Material	stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: stainless steel (1.4404 / 316L)		
Tightening torque [Nm]	50		
Drag chain suitability	yes		
Drag chain suitability	Bending radius for flexible applications	min. 10 x cable diameter	
	Bending cycles	> 5 Mio.	
Full-metal housing	yes		
Displays / operating elements			
Display	Switching status	LED, yellow	
Accessories			
Items supplied	lock nuts: 2		

IGC268



Inductive full-metal sensor

IGK3008BANKG/AM/2M/PUR

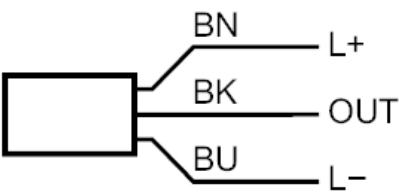
Remarks

Pack quantity	1 pcs.
---------------	--------

Electrical connection

Cable: 2 m, PUR, Ø 4.9 mm; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm²

Connection



BN :	brown
BK:	black
BU:	blue

BN	L+	
BK	OUT	DO (NO)
BU	L-	
DO: digital output; NO: normally open		