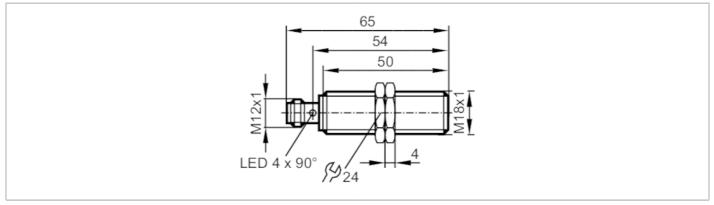
## **IGC232**

### Inductive sensor

IGK3005-BPKG/K1/V4A/US-104







Product characteristics			
Electrical design		PNP	
Output function		normally open	
Sensing range	[mm]	5	
Housing		Threaded type	
Dimensions	[mm]	$M18 \times 1 / L = 65$	
Application			
System		gold-plated contacts; correction factor = 1; Magnetic-field immune	
Application		Oils and coolants	
Magnetic-field immune		yes	
Max. electromagnetic field immunity	[mT]	300	
Electrical data			
Operating voltage	[V]	1030 DC	
Current consumption	[mA]	20	
Protection class		II	
Reverse polarity protection		yes	
Outputs			
Electrical design		PNP	
Output function		normally open	
Max. voltage drop switching output DC	[V]	2.5	
Permanent current rating of switching output DC	[mA]	100	
Switching frequency DC	[Hz]	2000	
Short-circuit protection		yes	
Overload protection		yes	
Monitoring range			
Sensing range	[mm]	5	
Real sensing range Sr	[mm]	5 ± 10 %	
Operating distance	[mm]	04.05	

# **IGC232**

## **Inductive sensor**

IGK3005-BPKG/K1/V4A/US-104



Accuracy / deviations					
Correction factor		steel: 1 / stainl	ess steel: 1 / brass: 1 / aluminum: 1 / copper: 1		
Hysteresis	[% of Sr]	315			
Switch-point drift	[% of Sr]	-1010			
Correction factor = 1		yes			
Operating conditions					
Ambient temperature [°C]		-2570			
Protection		IP 68; ("Coolant")			
Tests / approvals					
MTTF	[years]	657			
Embedded software included		yes			
UL approval		Ta	-2570 °C		
		Enclosure type	Type 1		
		voltage supply	Limited Voltage/Current		
		UL approval number	A005		
		File number UL	E174191		
Mechanical data					
Weight	[g]		45.5		
Housing		Threaded type			
Mounting			flush mountable		
Dimensions	[mm]	M18 x 1 / L = 65			
Thread designation			M18 x 1		
Material		housing: stainless steel (1.4404 / 316L); sensing face: LCP white; LED window: PEI white; lock nuts: brass white bronze coated			
Displays / operating el	ements				
Display		Switching status	4 x 90° LED, yellow		
Accessories					
Items supplied			lock nuts: 2		
Remarks					
Pack quantity		1 pcs.			
Electrical connection - plug					
Connector: 1 x M12; coding: A; Contacts: gold-plated					



# **IGC232**

### Inductive sensor

IGK3005-BPKG/K1/V4A/US-104



### Connection

