

IGK2012-FRKG/2LED/US-104



Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	12
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 70

Special feature	Gold-plated contacts; Increased sensing range; Optical setting aid
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Operating voltage	[V]	10...36 DC
Protection class		II
Reverse polarity protection		yes

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	4
Max. leakage current [mA]	1
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Sensing range	[mm]	12
Real sensing range Sr	[mm]	12 ± 10 %
Operating distance	[mm]	0...9.7



Inductive sensor

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Increased sensing range	yes	
Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis [% of Sr]	1...20	
Switch point drift [% of Sr]	-10...10	
Operating conditions		
Ambient temperature [°C]	-25...70	
Protection	IP 68; ("Coolant")	
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 61000-4-5 Surge	0,5 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF [years]	1341	
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power supply	Class 2
	File number UL	E174191
Mechanical data		
Weight [g]	53.1	
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions [mm]	M18 x 1 / L = 70	
Thread designation	M18 x 1	
Materials	brass white bronze coated; sensing face: PBT orange	
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
	setting aid	1 x LED, red
Optical setting aid	yes	
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	

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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated

