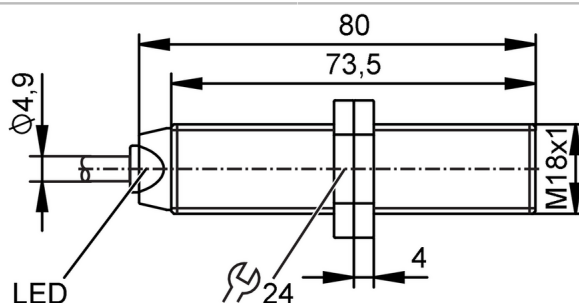


IG5505



Inductive sensor

IGA3005-APKG/V4A/10M



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	5
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 80

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	500
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	5
Real sensing range S_r [mm]	$5 \pm 10 \%$
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of S_r]	3...15
Switch-point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
Protection	IP 67

IG5505



Inductive sensor

IGA3005-APKG/V4A/10M

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
MTTF	[years]	1874

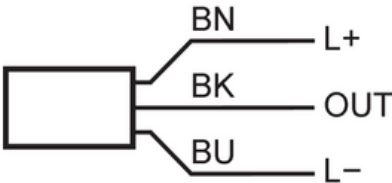
Mechanical data		
Weight	[g]	524.2
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 80
Thread designation		M18 x 1
Material		housing: stainless steel (1.4571/316Ti); sensing face: PBT orange; end cap: PC; lock nuts: stainless steel (1.4404 / 316L)

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Accessories	
Items supplied	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

Electrical connection	
Cable: 6 m, PVC; 3 x 0.5 mm²	
Connection	



BN :	brown
BK:	black
BU:	blue

BN	L+	
BK	OUT	DO (NC)
BU	L-	
DO: digital output; NC: normally closed		