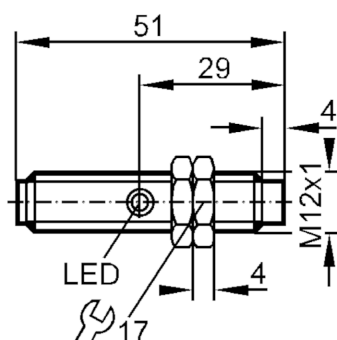




Inductive sensor

IFB2004-ARKG/UP/US-100-IRS RT



Electrical data

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

Outputs

Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	0.6
Permanent current rating of switching output DC	[mA]	150
Switching frequency DC	[Hz]	1500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	4
Real sensing range S_r	[mm]	$4 \pm 10 \%$
Operating distance	[mm]	0...3.25

IF5793



Inductive sensor

IFB2004-ARKG/UP/US-100-IRS RT

Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection	IP 67	
Tests / approvals		
EMC	EN 60947-5-2	class B
	EN 55011	
MTTF	[years]	2833
Mechanical data		
Weight	[g]	38.1
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M12 x 1
Thread designation	M12 x 1	
Materials	brass nickel-plated; PC	
Displays / operating elements		
Display	switching status	1 x LED, red
Accessories		
Accessories (supplied)	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M12		
		

IF5793



Inductive sensor

IFB2004-ARKG/UP/US-100-IRS RT

Connection

