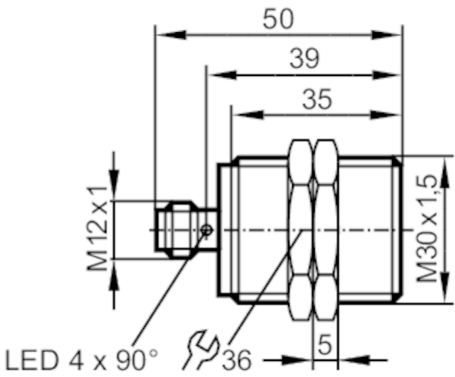


II506A



Inductive full-metal sensor

IIB3015BBPKG/AM/US-104/3G/3D



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	15
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 50
Application		
Special feature		Gold-plated contacts; Increased sensing range; Full-metal housing
Pressure rating	[bar]	100
Pressure rating	[MPa]	10
Note on pressure rating		sensing face
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
Protection class		III
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]	50
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	15
Real sensing range Sr	[mm]	15 ± 10 %
Operating distance	[mm]	0...12.15

II506A



Inductive full-metal sensor

IIB3015BBPKG/AM/US-104/3G/3D

Increased sensing range	yes
-------------------------	-----

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.6 / aluminium: 0.5 / copper: 0.2
Hysteresis [% of Sr]	1...15

Operating conditions

Ambient temperature [°C]	0...60
Note on ambient temperature	when used outside the hazardous area: 0...100°C
Protection	IP 67; (when used outside the hazardous area: IP 65, IP 66, IP 67, IP 68, IP 69K)

Tests / approvals

Approval	BVS 20 ATEX E 055 X; IECEx BVS 20.0042 X	
ATEX marking	II 3G Ex ec IIC T6 Gc	
	II 3D Ex tc IIIC T85°C	
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 emission	class B
MTTF [years]	1217	

Mechanical data

Weight [g]	135	
Housing	threaded type	
Mounting	flush mountable	
Dimensions [mm]	M30 x 1.5 / L = 50	
Thread designation	M30 x 1.5	
Materials	stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); LED window: PEI; lock nuts: stainless steel (316L/1.4404)	
Tightening torque [Nm]	70	
Full-metal housing	yes	

Displays / operating elements

Display	switching status	4 x LED, yellow
---------	------------------	-----------------

Accessories

Items supplied	lock nuts: 2	
----------------	--------------	--

Remarks

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

Electrical connection



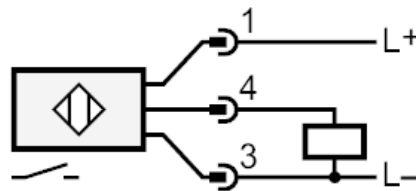
II506A



Inductive full-metal sensor

IIB3015BBPKG/AM/US-104/3G/3D

Connection



Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated