

II505A



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		
System	gold-plated contacts; Increased sensing range; Full-metal housing	
Pressure rating	100 bar	10 MPa
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	
Monitoring range		
Sensing range [mm]	15	
Real sensing range Sr [mm]	15 ± 10 %	
Operating distance [mm]	0...12.15	
Increased sensing range	yes	

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.6 / aluminum: 0.5 / copper: 0.2	
Hysteresis	[% of Sr]	1...15	
Operating conditions			
Ambient temperature		[°C]	-25...60
Note on ambient temperature		when used outside the hazardous area: -40...85°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 Dc	
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]	134.4
Housing		Threaded type	
Mounting		flush mountable	
Dimensions		[mm]	M30 x 1.5 / L = 50
Thread designation		M30 x 1.5	
Material		stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: stainless steel (1.4404 / 316L)	
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			

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



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Connection

