

Product characteristics

Inductive sensor
Metal thread M18 x 1
Quick disconnect
gold-plated contacts
Sensing range 12 mm; [nf] non-flush mountable

Electrical data		AS-i				
Electrical design		AS-i				
Operating voltage	[V]	26.5...31.6 DC (AS-i)				
Current consumption	[mA]	< 30				
Protection class		III				
Reverse polarity protection		yes				
Outputs						
Switching frequency	[Hz]	100				
Monitoring range						
Sensing range	[mm]	12				
Real sensing range (Sr)	[mm]	12 ± 10 %				
Operating distance	[mm]	0...9.7				
Accuracy / deviations						
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.46 / copper approx. 0.35				
Hysteresis	[% of Sr]	1...20				
Switch-point drift	[% of Sr]	-10...10				
Reaction times						
Power-on delay time	[ms]	< 1000				
Environment						
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 61000-4-6 HF conducted: 10 V				
		EN 55011: class B				
MTTF	[Years]	1484				
AS-i classification						
AS-i version		2.1				
Extended addressing mode possible		yes				
AS-i profile		S-0.A.F				
I/O configuration [hex]		0				
ID code [Hex]		A.F				
AS-i certificate		57301				
Data bits		Data bit	D0	D1	D2	D3

IGC235 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Designation	switching signal	not used	not used	not used
State = 0	Medium outside the active zone -	-	-	
State = 1	Medium within the active zone	default value	default value	default value

Mechanical data

Mounting non-flush mountable

Housing materials threaded sleeve: stainless steel (316L); active face: LCP uncolored; lock nuts: brass

Weight [kg] 0.049

Displays / operating elements

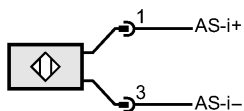
Output status indication LED yellow (4 x 90°)

Function display LED red

Electrical connection

Connection M12 connector; gold-plated contacts

Wiring



Accessories

Accessories (included) 2 lock nuts

Remarks

Pack quantity [piece] 1