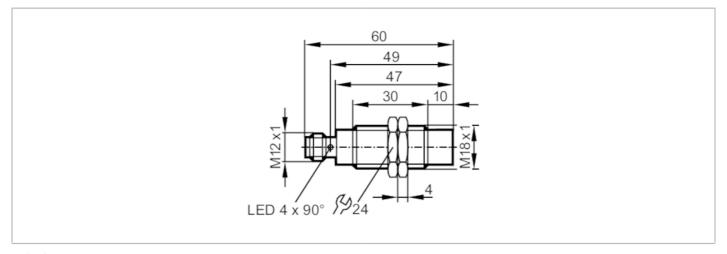
IG6083

Inductive analogue sensor

IGK3008A1PKG/US





C € ERI

Operating voltage [V] 1530 DC Current consumption [mA] < 20 Protection class II Reverse polarity protection yes Outputs Analogue current output [mA] 420; (linear; gradient: 2,22 mA/mm; for frontal approach and for target made of mild steel: 24 x 24 x 1 mm) Max. load [Ω] 500 Short-circuit protection yes Overload protection yes Detection zone Weasuring range Measuring range [mm] 0.88 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output [%] ±1 %; (of IA max) Response times Response times Response time [ms] < 10 Operating conditions	Electrical data			
Current consumption [mA] < 20		[]/]	15 30 DC	
Protection class Reverse polarity protection Outputs Analogue current output [mA]				
Reverse polarity protection Outputs Analogue current output [mA] 420; (linear; gradient: 2,22 mA/mm; for frontal approach and for target made of mild steel: 24 x 24 x 1 mm) Max. load [Ω] 500 Short-circuit protection yes Overload protection yes Detection zone Measuring range [mm] 0.88 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output [%] ± 1 %; (of IA max) Response times [ms] < 10		[11174]		
Outputs Analogue current output [mA] 420; (linear; gradient: 2,22 mA/mm; for frontal approach and for target made of mild steel: 24 x 24 x 1 mm) Max. load [Ω] 500 Short-circuit protection yes Overload protection yes Detection zone Measuring range [mm] 0.88 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output [%] eutput ± 1 %; (of IA max) Response times Response times Response time [ms]				
Analogue current output [mA] 420; (linear; gradient: 2,22 mA/mm; for frontal approach and for target made of mild steel: 24 x 24 x 1 mm) Max. load [\Omega] 500 Short-circuit protection yes Overload protection yes Detection zone Measuring range [mm] 0.88 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output [\%] ±1 \%; (of IA max) Response times Response times [ms] < 10			ycs	
Analogue current output [mA] and for target made of mild steel: 24 x 24 x 1 mm) Max. load [\Omega] 500 Short-circuit protection yes Overload protection yes Detection zone Measuring range [mm] 0.88 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output [%] ± 1 %; (of IA max) Repeatability analogue output [%] ± 1 %; (of IA max) Response times Response time [ms] < 10	Outputs			
Short-circuit protection Overload protection Detection zone Measuring range [mm] Accuracy / deviations Correction factor Linearity error of analogue output [%] Repeatability analogue output [%] Response times Response time [ms] Yes 0.88 0.88 Accuracy / deviations Steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 ± 1 %; (of IA max) + 1 %; (of IA max) - 10	Analogue current output	[mA]		
Overload protection yes Detection zone Measuring range [mm] 0.88 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output [%] ±1 %; (of IA max) Repeatability analogue output [%] ±1 %; (of IA max) Response times Response time [ms] < 10	Max. load	[Ω]	500	
Detection zone Measuring range [mm] 0.88 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output [%] ±1 %; (of IA max) Repeatability analogue output [%] ±1 %; (of IA max) Response times Response time [ms] < 10	Short-circuit protection		yes	
Measuring range [mm] 0.88 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output [%] ±1 %; (of IA max) Repeatability analogue output [%] ±1 %; (of IA max) Response times Response time [ms] < 10	Overload protection		yes	
Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output [%] ±1 %; (of IA max) Repeatability analogue output [%] ±1 %; (of IA max) Response times Response time [ms] < 10	Detection zone			
Correction factor Steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 Linearity error of analogue output Output Repeatability analogue output [%] Response times Response time [ms] Steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 ± 1 %; (of IA max) *** (A max) *** (A max) *** (A max) *** (A max) ** (A max) *** (A max) ** (A max) *** (A max) **	Measuring range	[mm]	0.88	
Linearity error of analogue output [%]	Accuracy / deviations			
output [%] ±1%, (of IA max) Repeatability analogue output [%] ±1%; (of IA max) Response times Response time [ms] <10	Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Response times Response time [ms] < 10		[%]	± 1 %; (of IA max)	
Response time [ms] <10	Repeatability analogue output	[%]	± 1 %; (of IA max)	
	Response times			
Operating conditions	Response time	[ms]	< 10	
	Operating conditions			
Ambient temperature [°C] -2580	Ambient temperature	[°C]	-2580	
Protection IP 67	Protection		IP 67	
Tests / approvals	Tests / approvals			
MTTF [years] 936	MTTF [years]	936	

IG6083

Inductive analogue sensor





Mechanical data					
Weight	[g]	61.6			
Housing		threaded type			
Mounting		non-flush mountable			
Dimensions	[mm]	M18 x 1 / L = 60			
Thread designation		M18 x 1			
Materials		housing: brass white bronze coated; sensing face: PBT			
Displays / operating elements					
Display		within the operating range	1 x LED, yellow lights		
ызріау		outside the operating range	1 x LED, yellow flashing		
Accessories					
Accessories (supplied)		lock nuts: 2			
Remarks					

1 pcs.

Electrical connection - plug

Connector: 1 x M12

Pack quantity



Connection

