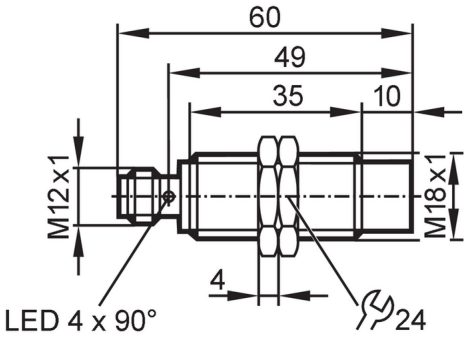
IG6084

Inductive analogue sensor with IO-Link

IGK4008A2PKG/IO/US



Product characteristics		
Electrical design		PNP/NPN; (parameterisable)
Output function		normally open / normally closed; (parameterisable)
Communication interface		IO-Link
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 60
Electrical data		
Operating voltage	[V]	15...30 DC
Current consumption	[mA]	< 30
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN; (parameterisable)
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	300
Analogue voltage output	[V]	0...10; (linear; gradient: 1,389 V/mm; for frontal approach and for target made of mild steel: 24 x 24 x 1 mm)
Min. load resistance	[Ω]	2000
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Measuring range	[mm]	0.8...8
Switch point IO-Link	[mm]	1.5...7.48
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4
Hysteresis	[% of Sr]	3...15
Note on hysteresis		parameterisable
Linearity error of analogue output	[%]	± 1; (of the final value of the measuring range)
Repeatability analogue output	[%]	± 1; (of the final value of the measuring range)

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Temperature coefficient [%/K vom MEW]		±0,15	
Temperature drift		± 5 %; (of the final value of the measuring range)	
Response times			
Response time [ms]		< 10	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM2 (38,4 kBaud)	
IO-Link revision		1.1	
SDCI standard		IEC 61131-9	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor	
	Common - I&D	Identification and Diagnosis	
	Function	Multiple switching signal	
	Function	Teach channel	
SIO mode		yes	
Required master port type		A	
Min. process cycle time [ms]		3.2	
IO-Link process data (cyclical)	**function**	**bit length**	
	process value	16	
	device status	4	
	binary switching information	2	
IO-Link functions (acyclical)		switching cycles counter; switch-on cycle counter; operating hours counter; internal temperature; application specific tag	
Supported DeviceIDs	**Type of operation**	**DeviceID**	
	default	1206	
Note		For further information please see the IODD PDF file under "Downloads"	
Operating conditions			
Ambient temperature [°C]		-25...80	
Protection		IP 65; IP 66; IP 67; IP 68; IP 69K	
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	
Vibration resistance	EN 60068-2-6 Fc	20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes	
Shock resistance	EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes	
Continuous shock resistance	EN 60068-2-27	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes	
Fast temperature change	EN 60068-2-14 Na	TA = -25°C; TB = 80°C; t1 = 30 min; t2 = < 10 s 50 cycles	
MTTF [years]		222	
Embedded software included		yes	

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UL approval		Ta	-25...60 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval no.	A024
		File number UL	E174191

Mechanical data		
Weight	[g]	47
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 orange; LED window: PEI; lock nuts: brass white bronze coated
Tightening torque	[Nm]	25

Displays / operating elements		
Display	target in measuring range	4 x LED, yellow lights
	target outside measuring range	4 x LED, yellow flashing

Accessories	
Items supplied	lock nuts: 2

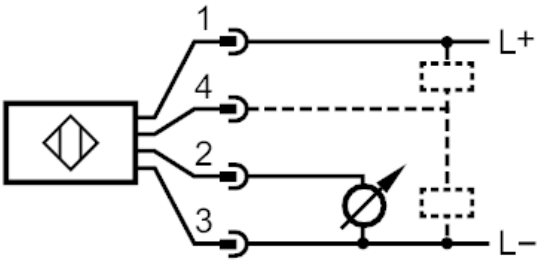
Remarks	
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4



Connection



1	L +
2	OUT
3	L -
4	OUT / IO-Link