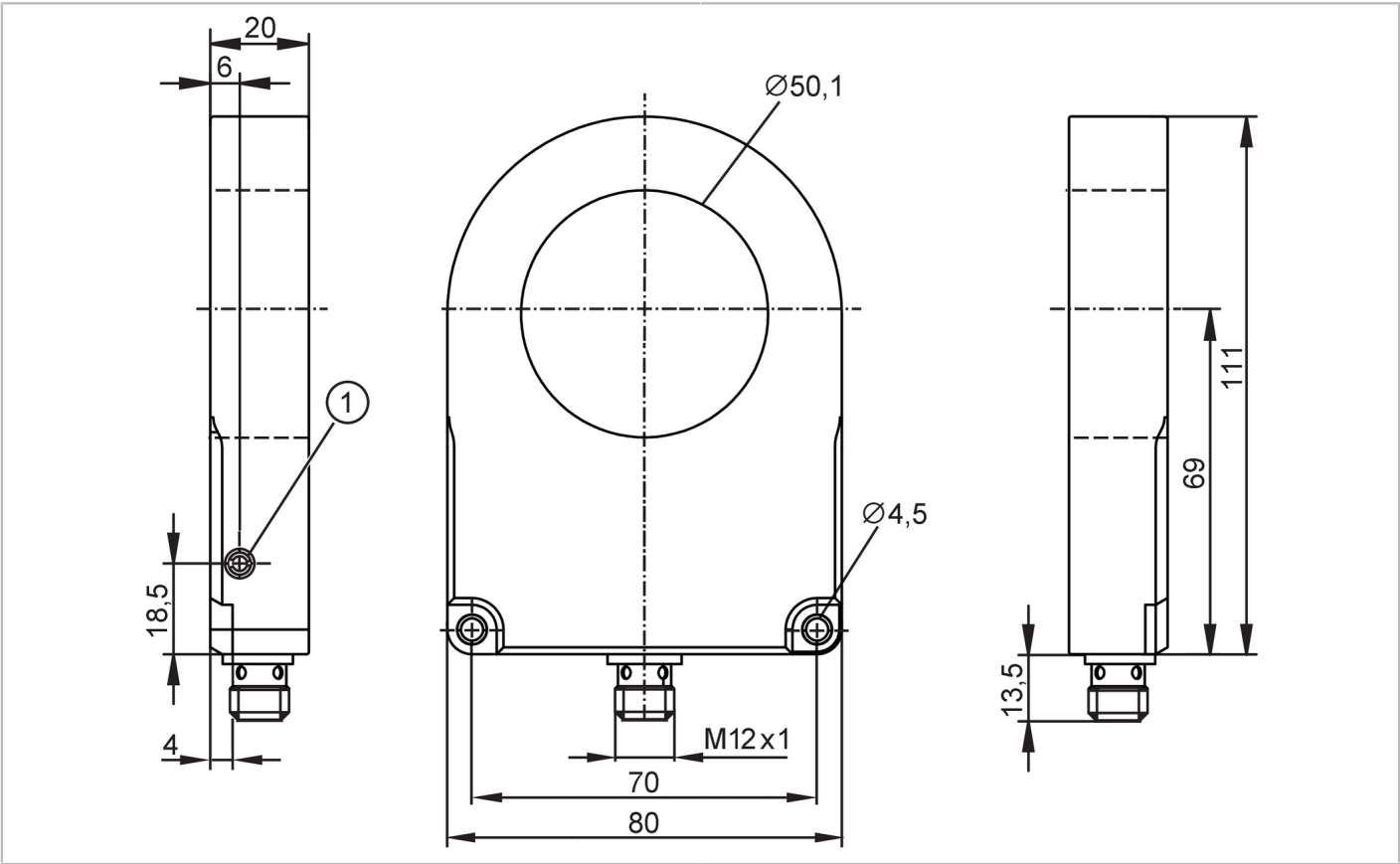


I7R217



Inductive ring sensor

I7R3051-FRKG/IO/US-104



Product characteristics

Electrical design	PNP/NPN; (selectable)
Output function	normally open / closed; (selectable)
Communication interface	IO-Link
Housing	circular
Dimensions [mm]	111 x 80 x 20

Application

Principle of operation	static; dynamic; (selectable)
Application	Industrial applications

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 30
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN; (selectable)
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	2
Permanent current rating of switching output DC [mA]	100

I7R217



Inductive ring sensor

I7R3051-FRKG/IO/US-104

Factory setting		Electrical design: PNP	
		Output function: normally open	
		Principle of operation: static	
Short-circuit protection		yes	
Overload protection		yes	
Monitoring range			
Max. part speed		[m/s]	35
Dynamic			
Resolution of steel ball (diameter)		[mm]	2.5
Static			
Resolution of steel ball (diameter)		[mm]	6
Reaction times			
Pulse stretching		[ms]	0...60000
Pulse stretching adjustable		yes	
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 4.1.1	
		Common - I&D	
		Extension	
		Extension	
		Function	
		Function	
SIO mode		yes	
Required master port class		A	
Min. process cycle time		[ms]	3.2
Supported DeviceIDs		Type of operation	
		default	
Operating conditions			
Ambient temperature		[°C]	-25...70
Protection		IP 67	
Tests / approvals			
MTTF		[years]	646
UL approval		Ta	
		Enclosure type	
		voltage supply	
		File number UL	
Mechanical data			
Weight		[g]	226.5
Housing		circular	
Dimensions		[mm]	111 x 80 x 20

I7R217



Inductive ring sensor

I7R3051-FRKG/IO/US-104

Inside diameter	[mm]	50.1
Material	housing: PA; ring: POM	

Displays / operating elements

Display	Switching status	4 x LED, yellow
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Remarks

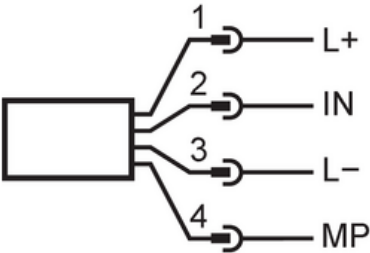
Pack quantity	1 pcs.
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Electrical connection - plug

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



Connection



1	L+	
2	IN	DI (Teach)
3	L-	
4	MP	DO (NO/NC), IO-Link

DI: digital input; DO: digital output; MP: multi-function connection; NC: normally closed; NO: normally open