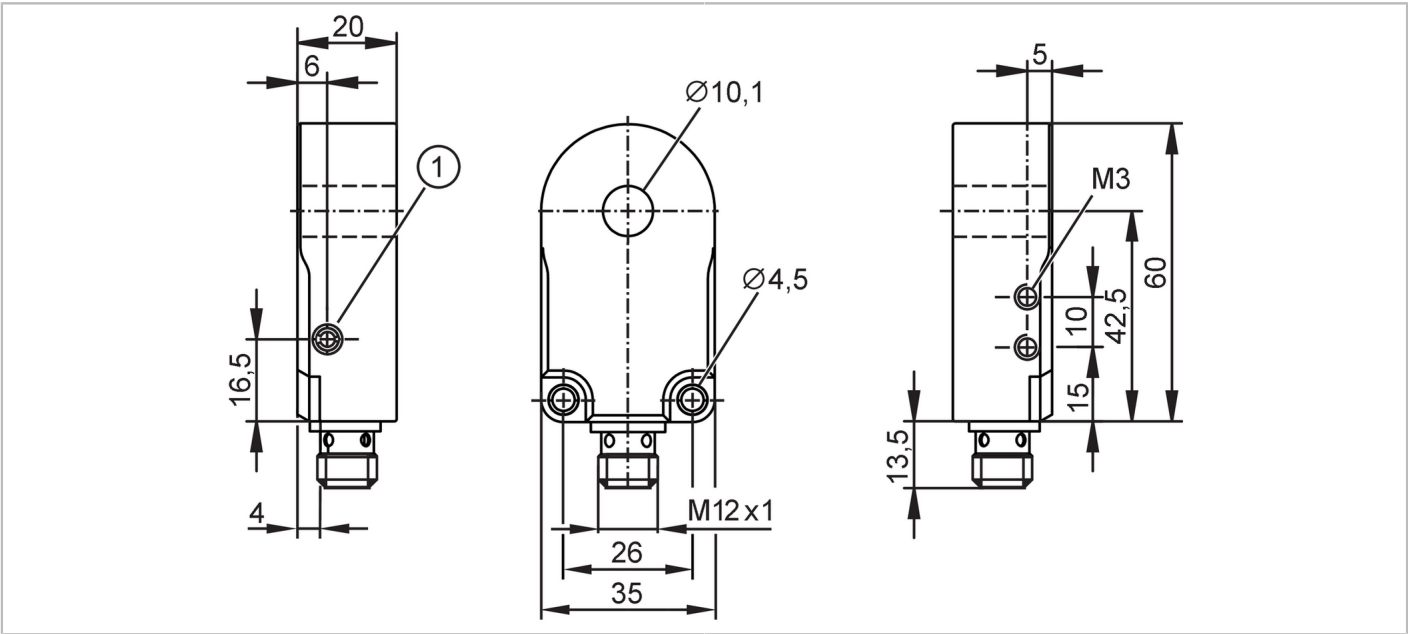


I7R201



Inductive ring sensor

I7R3010-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]	60 x 35 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
Factory setting	Electrical design: PNP Output function: normally open Principle of operation: static
Short-circuit protection	yes
Overload protection	yes

I7R201



Inductive ring sensor

I7R3010-FRKG/IO/US-104

Monitoring range			
Resolution of steel ball (diameter)	[mm]	dynamic	0.6
		static	1.5
Max. part speed	[m/s]	35	
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		Measuring and Switching Sensor, 1 channel
	Common - I&D		Identification and Diagnosis
	Extension		Teach dynamic
	Extension		Quantity detection, switches when value exceeds the setpoint
	Function		Locator
	Function		ProductURI
SIO mode		yes	
Required master port class		A	
Min. process cycle time	[ms]	3.2	
Supported DeviceIDs	Type of operation		DeviceID
	default		1764
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 67	
Tests / approvals			
MTTF	[years]	658	
UL approval	Ta		-25...70 °C
	Enclosure type		Type 4X (indoor use only) / 12 and 13
	voltage supply		Class 2
	File number UL		E174191
Mechanical data			
Weight	[g]	60.7	
Housing		circular	
Dimensions	[mm]	60 x 35 x 20	
Inside diameter	[mm]	10.1	
Material		housing: PA; ring: POM	
Displays / operating elements			
Display		Switching status	4 x LED, yellow
Remarks			
Pack quantity		1 pcs.	

I7R201



Inductive ring sensor

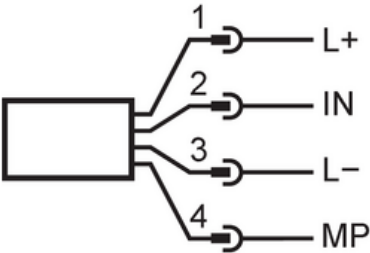
I7R3010-FRKG/IO/US-104

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