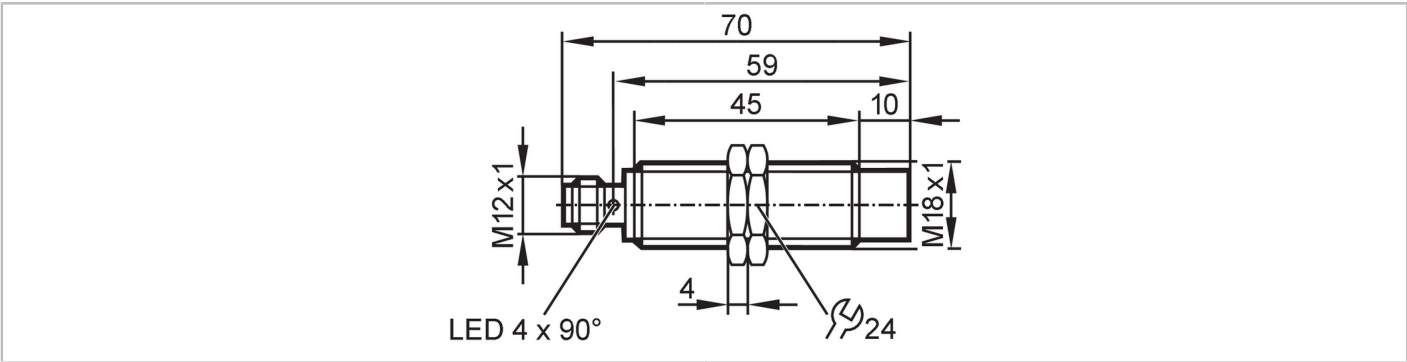




RFID read/write head HF

DTRHF GNRWIOUS03



Application					
Application		detection of objects on transport equipment			
Radio approval for		EU/RED; Great Britain; Canada; USA; China; India			
Note on radio approval		The list of countries applying the European Radio Equipment Directive 2014/53/EU (RED) can be found under “Downloads”.			
Electrical data					
Operating voltage		[V]	18...30 DC		
Current consumption		[mA]	< 280		
Protection class			III		
Operating frequency		[MHz]	13,56		
RFID standard			ISO 15693; ISO 14443A		
Inputs / outputs					
Number of inputs and outputs		Number of digital outputs: 2			
Outputs					
Output signal		switching signal; IO-Link			
Electrical design		PNP/NPN; (configurable)			
Number of digital outputs		2			
Output function		normally open / normally closed			
Max. voltage drop switching output DC		[V]	2		
Max. current load per output		[mA]	100		
Short-circuit protection		yes			
Type of short-circuit protection		pulsed			
Overload protection		yes			
Detection zone					
Distance to the ID tag		[mm]	read	:	≤ 42
			static		
			referred to 30 mm coin tag; I-CODE SLI		
Interfaces					
Communication interface		IO-Link			
Transmission type		COM3 (230,4 kBaud)			
IO-Link revision		1.1			



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SDCI standard	IEC 61131-9	
Profiles	BLOB	Binary Large Object transfer
	FWUP	Firmware Update for IO-Link Devices
	Common - I&D	Identification and Diagnosis
	Function	Locator
	Function	ProductURI
SIO mode	yes	
Required master port type	A	
Min. process cycle time [ms]	4	
Supported DeviceIDs	Type of operation	DeviceID
	default	1697

Operating conditions

Ambient temperature [°C]	-20...60
Storage temperature [°C]	-25...80
Protection	IP 67; IP 69K

Tests / approvals

Shock resistance	EN 60068-2-27	40 g 6 ms / repetitive
	EN 60068-2-27	50 g 11 ms / not repetitive
Vibration resistance	EN 60068-2-6	20 g 10...2000 Hz
MTTF [years]	245	

Mechanical data

Weight [g]	115.75
Housing	threaded type
Mounting	non-flush mountable
Dimensions [mm]	M18 x 1 / L = 70
Thread designation	M18 x 1
Materials	housing: brass; sensing face: LCP

Displays / operating elements

Display	Operating voltage	1 LED, green
	ID tag	1 LED, yellow

Remarks

Pack quantity	1 pcs.
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Electrical connection

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

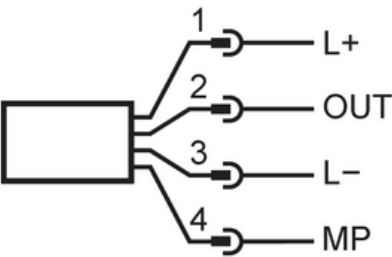




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Connection



1	L+	
2	OUT	DO2 (NO/NC)
3	L-	
4	MP	DO1 (NO/NC), IO-Link

DO: digital output; MP: multi-function connection