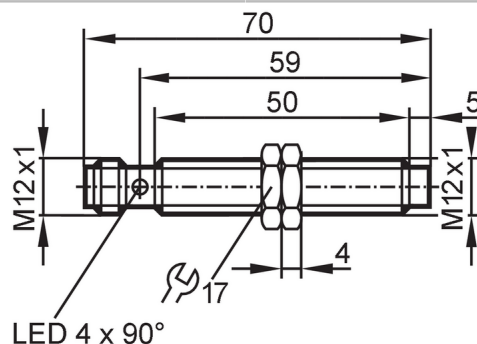




RFID read/write head HF

DTRHF FNRWIOUS03



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	:	≤ 24
	static		
	referred to 20 mm coin tag; I-CODE SLI		

Interfaces

Communication interface	IO-Link
Transmission type	COM3 (230,4 kBaud)



RFID read/write head HF

DTRHF FNRWIOUS03

IO-Link revision	1.1	
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]	94.4	
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions [mm]	M12 x 1 / L = 70	
Thread designation	M12 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.
---------------	--------

Electrical connection

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

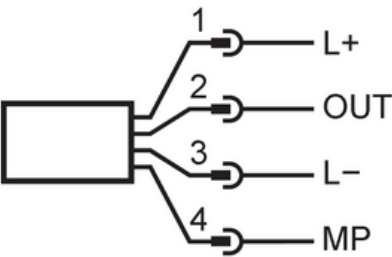




RFID read/write head HF

DTRHF FNRWIOUS03

Connection



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

DO: digital output; MP: multi-function connection