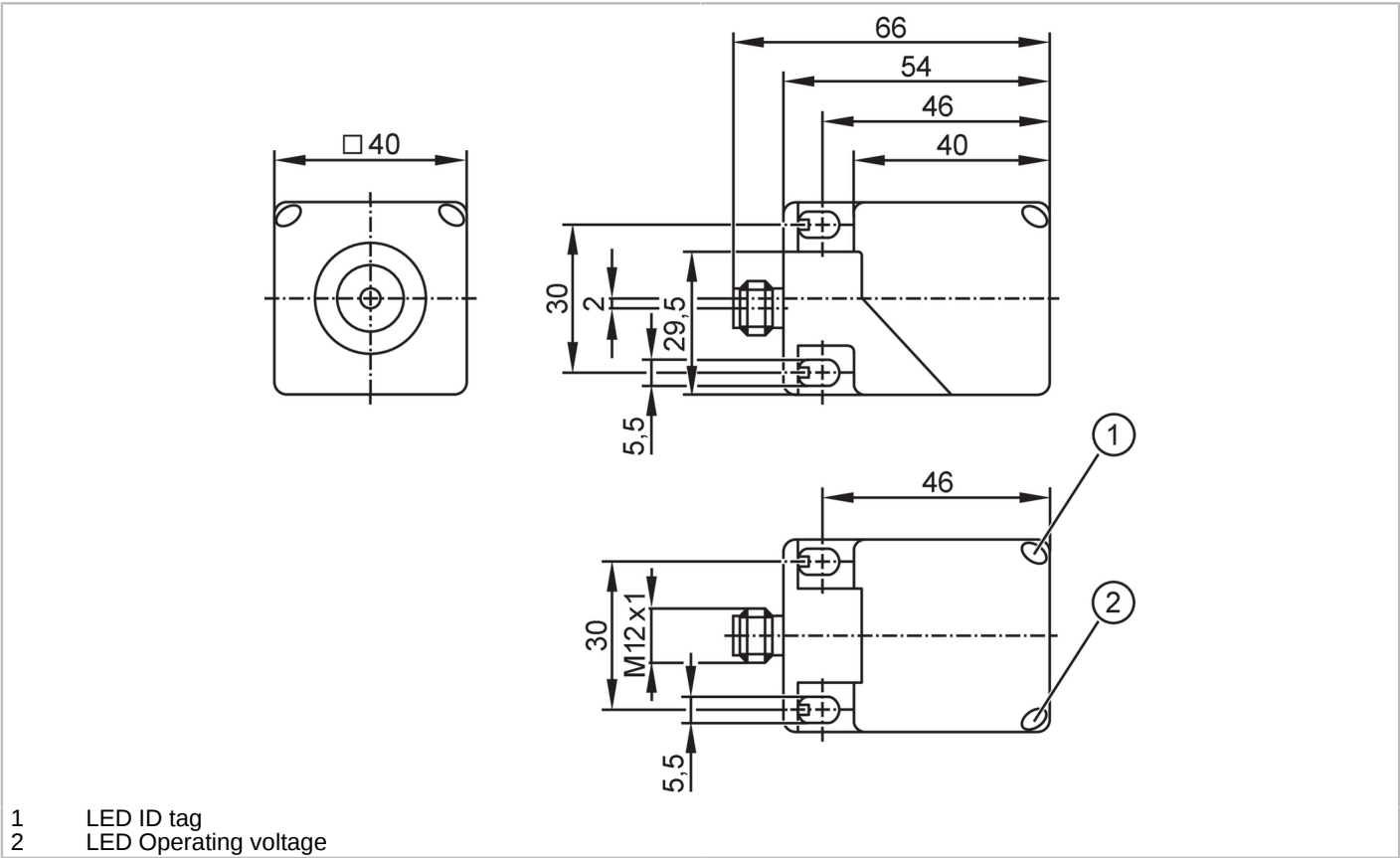




RFID read/write head HF

DTRHF MCRWIOUS03



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]	80...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



RFID read/write head HF

DTRHF MCRWIOUS03

Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
Distance to the ID tag	[mm]	read ≤ 75	
		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	
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]	242
Mechanical data			
Weight		[g]	171.75
Housing		rectangular	
Mounting		flush mountable	
Dimensions		[mm]	40 x 40 x 54
Materials		housing: PA; metal parts: brass white bronze coated	
Displays / operating elements			
Display	Operating voltage		1 LED, green/red
	ID tag		1 LED, yellow
Remarks			
Pack quantity		1 pcs.	



RFID read/write head HF

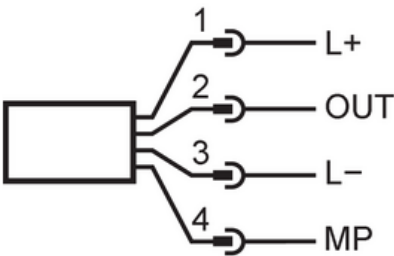
DTRHF MCRWIOUS03

Electrical connection

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



Connection



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

DO: digital output; MP: multi-function connection