



## RFID Reader Head 0-70mm Read Write Range With RS-232 LED Display IP67 M30X1.5

### Our Product Introduction

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#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: KRH-M30G-R2
- Minimum Order Quantity: 10 pieces
- Price: Negotiable
- Packaging Details: Paper box packing
- Delivery Time: 5-8 working days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000 pieces per month



#### Product Specification

- Features: High Reading And Writing Speed
- Series: M30 Series
- Description: RFID HF Read/write Head
- Operating Temperature: -30 ~+70
- Voltage Rating: 18-30V
- Interface: M12 4 Pin Male Connector
- LED Display: 1 X LED, Blue
- Housing Color: Matte Silver(metal)+Nylon(plastic)
- Highlight: **IP67 RFID Reader Head,  
M30X1.5 RFID Reader Head,  
RS-232 LED Display RFID Reader Head**



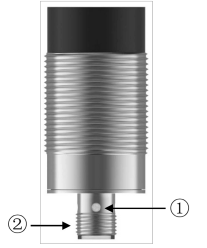
## Product Description

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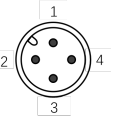
##### 1. Advantages:

- 1>. High protection level and strong corrosion resistance, can be used in harsh industrial environments
- 2>. High reading and writing speed, speeding up factory production rhythm and improving production efficiency
- 3>. Supports RS232, RS485, Modbus RTU communication, and can be quickly integrated into industrial networks such as TCP, Modbus TCP, PROFINET, EtherCat and Ethernet/IP with our Gateway Module.
- 4>. High stability and reliability, 7\*24h operation

	Characteristics	
	Design	1. LED status display
		2. Power supply and communication interface
Area of application	Identification tasks on small assembly lines in harsh industrial environments. Mainly used in 3C, new energy and other industries	

##### 2. Electrical Interface

KRH-M30G with RS-232 interface, using a 4Pin-M12-ACODED-Male connector, the pin assignment is shown below.

	Pin	Assignment	Description
	1	+24V	Power supply positive
	2	TX	RS-232 TX
	3	0V	Power supply negative
	4	RX	RS-232 TX

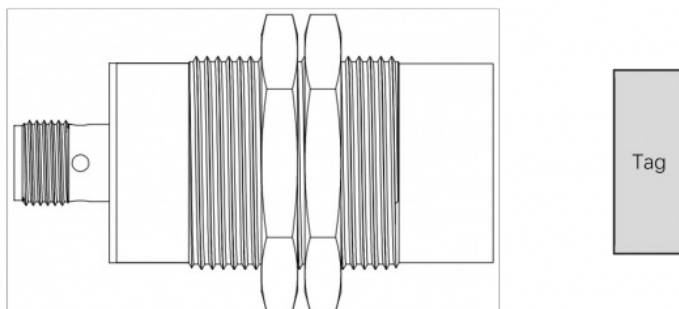
##### 3. LED operating display

The operational statuses of the reader are displayed by the LEDs. The LED can adopt the colors blue and the statuses off, on, flashing.

Name	Color	State	Description
SYS	Blue	Off	The reader is power off.
		On	The reader is powered on and working properly.
		20Hz flashing	Tags was detected in the main identification area (RSSI signal is the strongest).
		8Hz flashing	Tags was detected in the secondary identification area (RSSI signal is medium).
		4Hz flashing	Tags was detected in the critical identification area (RSSI signal is weak).
		2Hz flashing	Valid instructions were received and executed successfully

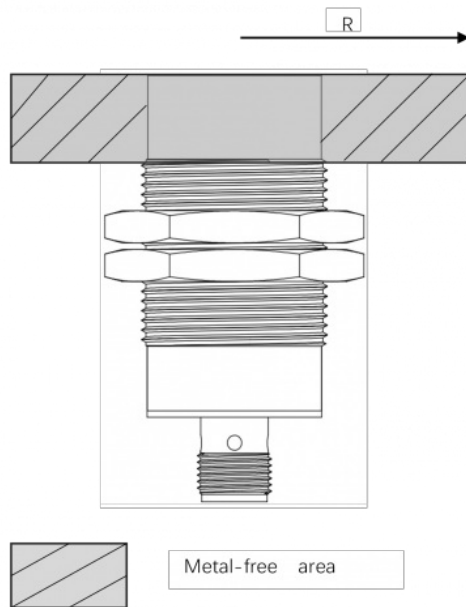
##### 4. Reliable identification area

The tag should be in the center area of the sensing range as shown below.

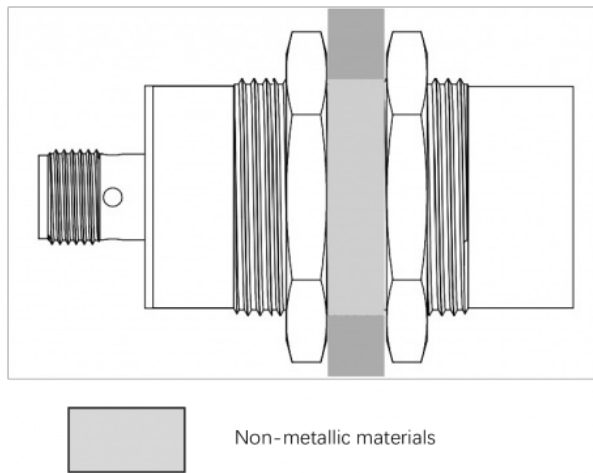


##### 5. Metal-free area

The KRH-M30G can be flush-mounted in metal. Allow for a possible reduction in the field data. To avoid any influence on the field data, the distance "R" should be kept to  $\geq 40\text{mm}$ .

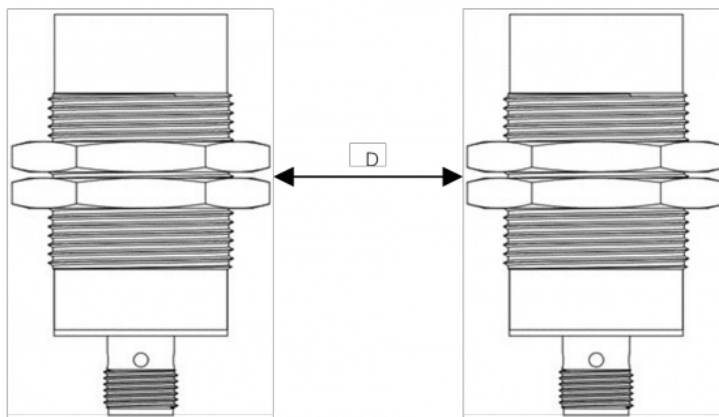


In order to avoid potential conducted interference, it is recommended to use nonmetallic brackets to cut off the transmission path of conducted interference.

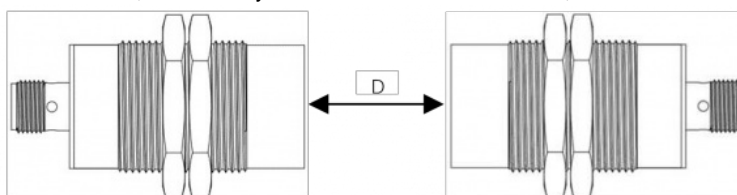


#### 6. Minimum distance between KRH-M30G readers

KRH-M30G side by side, to avoid any influence between the readers, the distance "D" should be kept to  $\geq 80\text{mm}$ .



KRH-M30G face-of-face, to avoid any influence between the readers, the distance "D" should be kept to  $\geq 150\text{mm}$ .



#### 7. Technical Specifications

Model No.	KRH-M30G-R2
Radio frequencies	

Operating frequency	13.56MHz
Antenna	Integrated
Read /Write range	0~70mm(Related to the tags)
ISO standard	ISO 15693
Electrical Data	
Supply voltage	9~30VDC
Current consumption	60mA@24V
Communication interface	RS-232
Transmission speed	9600~115200 bps
Transmission distance	10m
Connector	4Pin-M12-ACODED-Male
Permitted ambient conditions	
Operation temperature	-30 ~+70
Storage temperature	-40 ~+85
Degree of protection	IP67,according to EN 60529
Shock resistance	7M2,500 m/s2,according to EN 60721-3-7
Vibration resistance	7M2,200 m/s2,according to EN 60721-3-7
Torsion and bending load	Not permitted
Mechanical specifications	
Housing Material	Brass nickel plated (metal) + Nylon (plastic)
Housing color	Matte silver (metal) + Black (plastic)
Weight	About 70g
Dimensions	M30 x 1.5/L=65mm
Housing shape	Tubular
Thread code	M18 x 1.5
LED display	1 x LED, blue
Standards, specifications, approvals	
Proof of suitability	CE FCC RoHS WEEE

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