



Square HF Read Write Head for RFID RS485 0-100mm Range 5Pin M12 Male Connector

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: KRH-Q50G-R4
- 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

- Current Consumption: <70mA@24V
- Read/write Range: 0~100mm (Related To The Tags)
- Operating Frequency: 13.56MHz
- Transmission Distance: <10m
- Connector: 5Pin-M12-Acoded-Male
- Communication Interface: RS-485
- Operation Temperature: -30 ~+70
- Transmission Speed: 9600~115200 Bps
- Highlight: **RS485 RFID Recognition System,
M12 Male Connector RFID Recognition System,
5Pin RFID Recognition System**



Product Description

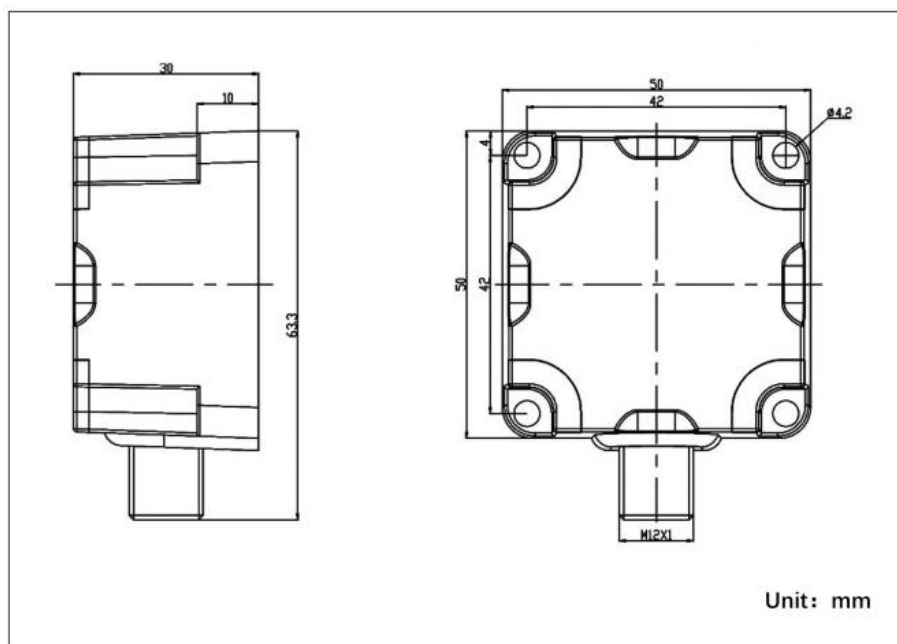
Square HF Read Write Head for RFID RS485 0-100mm Range 5Pin M12 Male Connector

Product Description

KRONZ

HF read/write head (13.56MHz)

KRH-Q50G



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, TCP/IP, Modbus RTU, Modbus TCP communication, and can be quickly integrated into industrial networks such as PROFINET, EtherCat and Ethernet/IP with the gateway module
- 4) High stability and reliability, 7*24h operation

1 Features

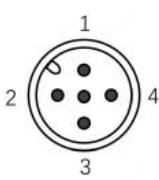
KRH-Q50G	Characteristics	
	Design	<ol style="list-style-type: none"> ① LED status display ② Power supply and communication interface
	Area of application	Identification tasks on small assembly lines in harsh industrial environments. Usually used in 3C, new energy, automobiles, home appliances and other industries.

2 Ordering data

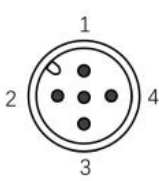
KRH-Q50G	Order Code
with RS-232 interface	KRH-Q50G-R2
with RS-485 interface	KRH-Q50G-R4
with IO-Link interface	KRH-Q50G-IL
with TCP/IP interface	KRH-Q50G-TCP

3 Electrical interface

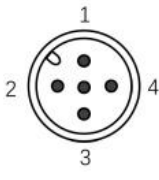
KRH-Q50G with RS-232 interface, using a 5Pin-M12-ACODED-Male connector, the pin assignment is shown below.

Connector	Pin	Assignment	Description
	1	+24V	Power supply positive
	2	TX	RS-232 TX
	3	0V	Power supply negative
	4	RX	RS-232 RX
	5	NC	Not connected

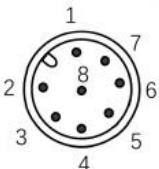
KRH-Q50G with RS-485 interface, using a 5Pin-M12-ACODED-Male connector, the pin assignment is shown below.

Connector	Pin	Assignment	Description
	1	+24V	Power supply positive
	2	A	RS-485 A
	3	0V	Power supply negative
	4	B	RS-485 B
	5	NC	Not connected

KRH-Q50G with IO-Link interface, using a 5Pin-M12-ACODED-Male connector, the pin assignment is shown below.

Connector	Pin	Assignment	Description
	1	+24V	Power supply positive
	2	I/Q	IO Link I/Q
	3	0V	Power supply negative
	4	C/Q	IO Link C/Q
	5	NC	Not connected




KRH-Q50G with TCP/IP interface, using a 8Pin-M12-ACODED-Male connector, the pin assignment is shown below.

Connector	Pin	Assignment	Description
	1	+24V	Power supply positive
	2	NC	Not connected
	3	0V	Power supply negative
	4	NC	Not connected
	5	TD+	Tranceive Data+
	6	TD-	Tranceive Data-
	7	RD+	Receive Data+
	8	RD-	Receive Data-




4 LED Operating display

The operational statuses of the reader (KRH-Q50G with RS-232/RS-485/IO-Link interface) are displayed by the LEDs. The LED can adopt the colors blue, red or yellow and the statuses off, on, flashing.



Name	Color	State	Description
SYS		Off	The reader is power off.
		Blue LED on	The reader is powered on and working properly.
		Blue LED flashing	The reader is in BOOT mode.
		Red LED on	Reader self-test failed.
		Red LED flashing	Reader software runs abnormally.
LINK		Off	No valid command frame received.
		Blue LED on	A valid command frame has been received.
		Blue LED flashing	Valid instructions were received and executed successfully.
		Red LED on	Hardware failure.
		Red LED flashing	Valid command received but execution failed.
TAG		Off	No Tags was detected in the identification area.
		Blue LED on	Tags was detected in the main identification area (RSSI signal is the strongest).
		Blue LED flashing	Tags was detected in the secondary identification area (RSSI signal is medium).
		Yellow LED on	Tags was detected in the critical identification area (RSSI signal is weak).
		Yellow LED flashing	Tag was detected between the critical identification area and the non-identification area (RSSI signal critical).

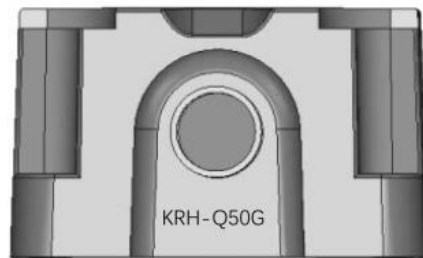
The operational statuses of the reader (KRH-Q50G with TCP/IP interface) are displayed by the LEDs. The LED can adopt the colors blue, red or yellow and the statuses off, on, flashing.

Name	Color	State	Description
SYS		Off	The reader is power off.
		Blue LED on	The reader is powered on and working properly.
		Blue LED flashing	The reader is in BOOT mode.
		Red LED on	Reader self-test failed.
		Red LED flashing	Reader software runs abnormally.
LINK		Off	No connection established.
		Blue LED on	Connection established.
		Blue LED flashing	Valid instructions were received and executed successfully.
		Red LED on	Hardware failure.
		Red LED flashing	Valid command received but execution failed
TAG		Off	No Tags was detected in the identification area.
		Blue LED on	Tags was detected in the main identification area (RSSI signal is the strongest).
		Blue LED flashing	Tags was detected in the secondary identification area (RSSI signal is medium).
		Yellow LED on	Tags was detected in the critical identification area (RSSI signal is weak).
		Yellow LED flashing	Tag was detected between the critical identification area and the non-identification area (RSSI signal critical).

5 Reliable identification area

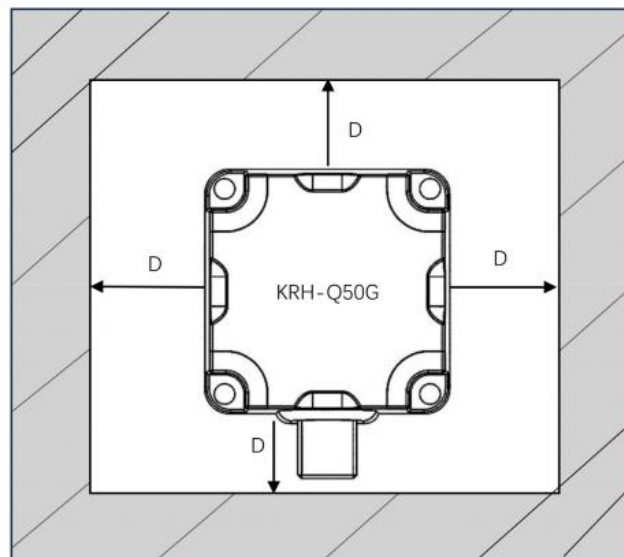
The tag should be in the center area of the sensing range as shown below.

Tag



6 Metal-free area

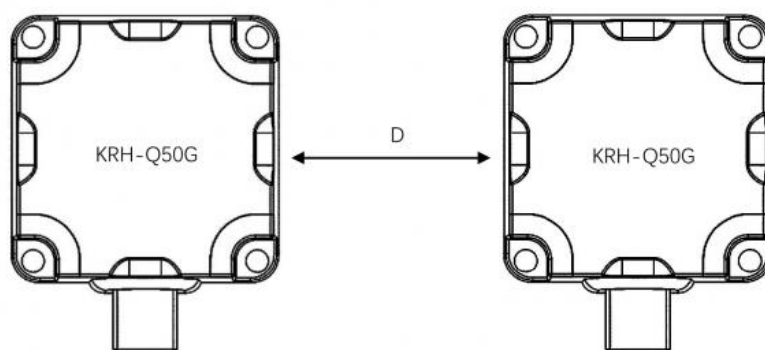
The KRH-Q50G can be flush-mounted in metal. Allow for a possible reduction in the field data. To avoid any influence on the field data, the distance "D" should be kept to $\geq 30\text{mm}$.



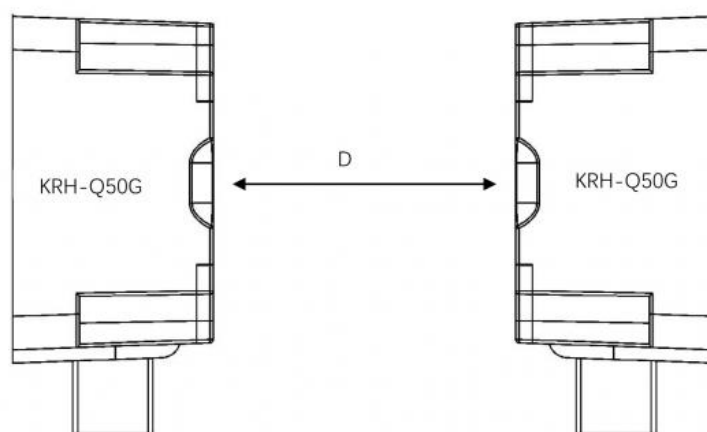
Metal area

7 Minimum distance between KRH-Q50G readers

KRH-Q50G side by side, To avoid any influence between the readers, the distance "D" should be kept to $\geq 150\text{mm}$.



KRH-Q50G face-of-face, To avoid any influence between the readers, the distance "D" should be kept to $\geq 300\text{mm}$.



8 Technical specifications

	KRH-Q50G-R2	KRH-Q50G-R4	KRH-Q50G-IL	KRH-Q50G-TCP
Radio frequencies				
Operating frequency	13.56MHz			
Antenna	integrated			
Read /Write range	0~100mm (Related to the tags)			
ISO standard	ISO 15693			
Electrical Data				
Supply voltage	9~30VDC			
Current consumption	< 70mA@24V	< 70mA@24V	< 70mA@24V	< 100mA@24V
Communication interface	RS-232	RS-485	IO-Link	TCP/IP
Transmission speed	9600~115200 bps	9600~115200 bps	COM2 (38400 bps)	10 / 100M adaptive Ethernet
Transmission distance	< 10m	Shielded twisted pair, < 50m	< 20m	Cat 5e and above shielded twisted pair, < 100m
Connector	5Pin-M12-ACODED-Male			8Pin-M12-ACODED-Male
Permitted ambient conditions				
Operation temperature	-30°C ~ +70°C			
Storage temperature	-40°C ~ +85°C			
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	PC+ABS
Housing color	Black
Weight	About 80g
Dimensions	50X50X30mm
Type of mounting	4 X M4 screws, the length of the screw should be ≥ 20 mm
LED display	4 x LED, blue 2 x LED, red 2 x LED, yellow
Standards, specifications, approvals	
Proof of suitability	CE FCC RoHS WEEE

Company Profile

ABOUT US

KRONZ is a manufacturing enterprise located in Zengcheng District, Guangzhou City. We focus on providing customers with high-efficiency industrial automation solutions and related industrial products. After many years of innovation and development, KRONZ has complete product processing equipment and a professional team who are proficient in various automation technologies.

In order to improve the quality of products and production efficiency, we continue to introduce advanced production equipment and technology, strengthen investment in research and development. At present, our main products include Industrial Connectors, Inductive Sensors, Capacitive Sensors, Photoelectric Sensors, Ultrasonic Sensors, Industrial power supplies, Industrial fieldbus, RFID recognition systems, Industrial Ethernet Switches

We not only produce the orders of standard products, but also have ability to make customize production based on customer design drawings or samples.

Adhering to the principle of mutual benefit, we provide our customers with competitive prices, and perfect after-sales service. KRONZ's products have been sold in multiple countries, have won the trust and praise of customers. KRONZ expect to collaborate with you.

OUR FACTORY



Logistics and Payment



1. Samples and small orders can be shipped with fast shipment method, by air and by express. Bulk order will ship by sea, by air, by train, by truck etc.
2. We also can send the goods to your agent warehouse.
3. If you need any more shipping method, please feel free to contact with us.



Note:

Due to the wide range of our products, we cannot list all product pictures and corresponding product parameters. If you have other needs, please communicate with me. We can provide supplementary information and technical support. We Are Happy to Serve You.



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