



## RFID Read Write Head With TCP IP Port LED Display 5Pin M12 A Coded Male Connector

Our Product Introduction

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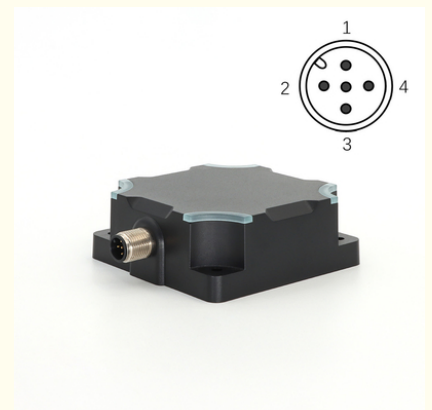
### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: KRH-Q80G-TCP
- 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

- Series: Q80 Series
- Description: RFID HF Read/write Head
- Operating Temperature: -30 ~+70
- Voltage Rating: 18-30V
- Interface: M12 8 Pin Male Connector
- Operating Frequency: 13.56MHz
- Supply Voltage: 9-30VDC
- Measuring Range: 0~150mm(Related To The Tags)
- Highlight: **RFID Read Write Head,  
RFID Read Write Head 5Pin,  
M12 Connector RFID Read Write Head**

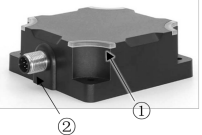


## Product Description

### RFID Read Write Head With TCP IP Port LED Display 5Pin M12 A Coded Male Connector

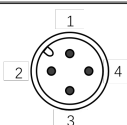
#### 1. Advantages:

- 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, TCP/IP, Modbus RTU, Modbus TCP communication, and can be quickly integrated into industrial networks such as PROFINET, EtherCat and Ethernet/IP with our Gateway Module.
- 4>. High stability and reliability, 7\*24h operation

	Characteristics	
	Design	LED status display
		Power supply and communication interface
Area of application	Identification tasks on small assembly lines in harsh industrial environments. Usually used in new energy, automobiles, home appliances and other industries	

#### 2. Electrical Interface

KRH-Q80G 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

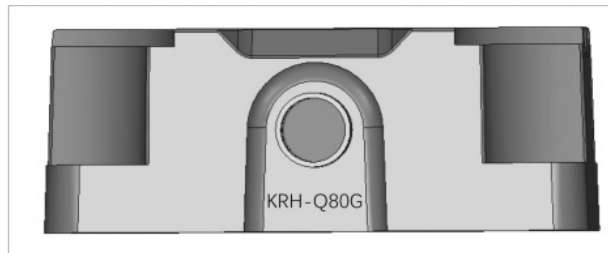
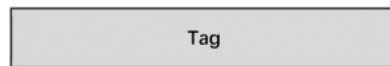
#### 3. LED operating display

The operational statuses of the reader (KRH-Q80G 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	Blue Red	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	Blue Red	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	Blue Yellow	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).

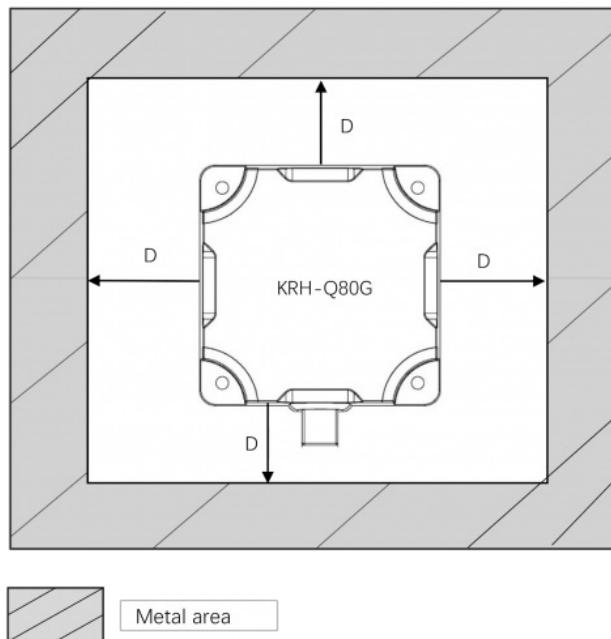
#### 4. Reliable identification area

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



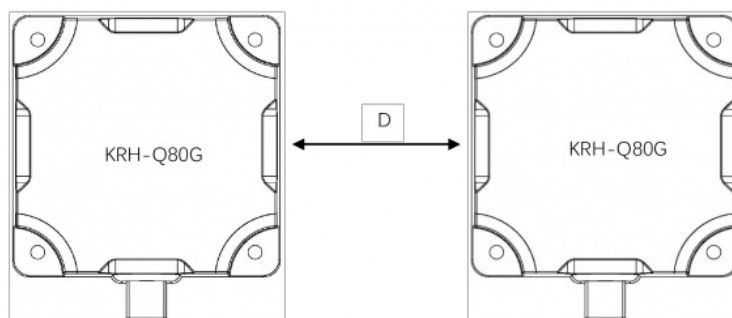
### 5. Metal-free area

The KRH-Q80G 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  $\geq 30\text{mm}$ .

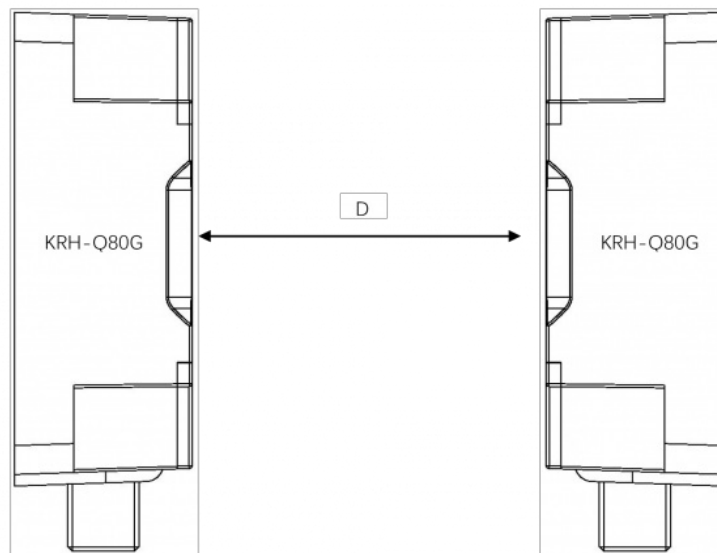


### 6. Minimum distance between KRH-M30G readers

KRH-Q80G side by side, To avoid any influence between the readers, the distance "D" should be kept to  $\geq 300\text{mm}$ .



KRH-Q80G face-of-face, To avoid any influence between the readers, the distance "D" should be kept to  $\geq 400\text{mm}$ .



## Technical Data

Order No.	KRH-Q80G-TCP
<b>Radio Frequencies</b>	
Operating frequency	13.56MHz
Antenna	Intergrated
Read/Write range	0-150mm (Related to the tags)
ISO standard	ISO 15693
<b>Electrical Data</b>	
Supply voltage	9~30VDC
Current consumption	<100mA@24V
Communication interface	TCP/IP
Transmission speed	10 / 100M adaptive Ethernet
Transmission distance	Cat5e and above shielded twisted pair, 100m
Connector	8Pin-M12- ACODEDMale
<b>Permitted ambient conditions</b>	
Operation temerature	-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
<b>Mechanical specifications</b>	
Housing Material	PC + ABS
Housing color	Black
Weight	About 185g
Dimensions	80 x 80 x 30 mm
Type of mounting	4 X M4 screws, the length of the screw should be ≥ 20 mm
Thread code	M30 x 1.5
LED display	4 x LED, blue 2 x LED, red 2 x LED, yellow
<b>Standards, specifications, approvals</b>	
Proof of suitability	CE FCC RoHS WEEE

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