KF
CONTROLS

KINGFISHER CONTROLS

Making Better Sense For You

Proximity

CE RoHS

2016

**Small in size,
but BIG in functions**

ACCESSORIES
INDUCTIVE RING SENSOR
METAL FACE
HIGH/LOW TEMPERATURE
PHOTOELECTRIC
ULTRASONIC
ADAPTIVE
CAPACITIVE
QUICK CONNECT CABLES
CUSTOMIZATION

www.KFControl.com

The first stainless mini ring sensor in the industry, with programmable sensing ability to meet your wide application needs

- Presence/Absence sensing
- Pass-thru sensing
- Programmable for Ferrous or Non-Ferrous applications

- A high performance inductive ring sensor to meet difficult sensing applications with tough steel cover
- 4 programmable configuration modes via 2 pushbuttons
  - ▸ Automatic target sensing setup
  - ▸ Background metal rejection
  - ▸ Hysteresis increase
  - ▸ Hysteresis decrease
- Available in unitized sensing head/electronics configuration or with remote electronics.
- It was custom designed for sensing the presence of a steel screw-driver blade on screw-driving station but it can be programmed to act as a pass-thru steel bearings or steel screws sensor

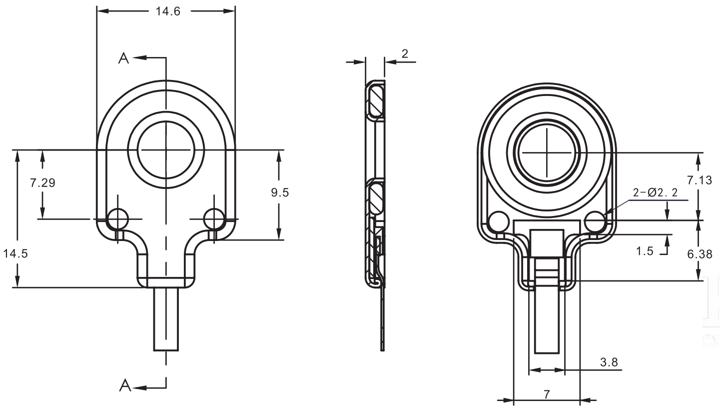
More...

- Capable of sensing non-ferrous material by reprogramming

Inductive-Ring

Ring Sensor

SST Ring Sensor



△ Stainless steel housing

Diameter Ring	**ø6mm**
● Flush ○ Non-flush	●
Target Diameter	0.3mm
LED Indicator	Green: Power, Red: Output
Operating Voltage	8 - 30 vdc
Ripple	<10%
No Load Current	<10mA
Max Load Current	100mA
Leakage Current	<0.01mA
Voltage Drop	<1.5v
Switching Frequency	250Hz
Response Time	2ms/2ms
Switching Hysteresis	<15%(Sr)
Repeat Accuracy	<2%(Sr)
Enclosure Rating	IP67
Operating Temperature	-25C-+70C
Temperature Drift	<10%(Sr)
Protection	Short Circuit, Reverse Polarity
Connection Type	3-wire, 2-meter Cable
Material Tube/Face	Stainless Steel
Cable Material	PVC, Dia 2.5mm
Product Style	**2-meter Cable**
NPN Programmable NO/NC	IQFS-1406-NPWC2
PNP Programmable NO/NC	IQFS-1406-PPWC2

SST Ring Sensor

Programming

Mode1： Operate set point
Button sequence-1 push Button 1 for programming mode ,1 additional push for mode 1.

The purpose of this mode is to place the target at the position it needs to be sensed. When target is properly positioned ，press Button 1 the additional press and wait for flashing lights to go solid .If set up correctly the indicators will go solid red to show the target is sensed.

Mode2： Background Rejection
Button sequence-1 push Button 1 for programming mode ,2 additional push for mode 2.

The purpose of this mode is to ignore background metal and put the sensor in its stable operating state .Depending on the target ，a further operate point optimization in Mode 1 may be necessary .If set up correctly the indicators will go solid green to show all background is ignored.

Mode3： Hysteresis Increase
Button sequence-1 push Button 1 for programming mode ,3 additional push for mode 3.

This mode increases the hysteresis percentage between the operate and release points. This may be necessary if targets have a high vibration to prevent multiple detections of the same target.

Mode4： Hysteresis Decrease
Button sequence-1 push Button 1 for programming mode ,4 additional push for mode 4.

This mode decreases the hysteresis percentage between the operate and release points. This may be necessary if targets have a high size or non-ferrous materials.

Mode5： Reset to Factory Default Settings
Button sequence-1 push Button 1 for programming mode ,5 additional push for mode 5.

This mode decreases the hysteresis percentage between the operate and release points. This may be necessary if targets have a high size or non-ferrous materials.