

RA Ecosystem Partner Solution

Tessera Technology TS-IO-RA2E2-02



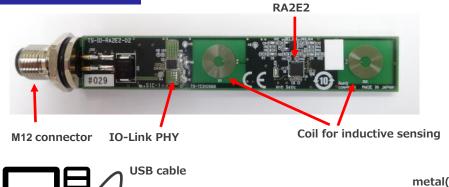
Solution Summary

Tessera inductive sensor solution board is for evaluation of software and system development with Renesas general-purpose microcontroller RA2E2 and single-channel IO-Link PHY RH4Z2501. The board enables metal detection by measuring electrical resistance between the two coils. The energy-saving and compact RA2E2 MCU is ideal for battery-powered applications such as IoT sensor nodes, portable terminals, and industrial control equipment, which require space-saving and low power consumption.

Features/Benefits

- RA2E2 and RH4Z2501 onboard with standard M12 connector
- Inductive sensor detects metal within 5 mm and indicates with LED on/off on the board or onscreen GUI
- TMG evaluation stack can be downloaded free of charge from Renesas.com
- GUI enables confirmation of device information and parameter settings, ideal for initial evaluation of IO-Link communication

Diagrams/Graphics





Target Markets and Applications

- Industrial sensor
- Industrial actuator
- Inductive sensor
- · Proximity switch



Specification

| Product name | RA2E2 Inductive Sensor Solution Board |
|----------------------|--|
| Product model number | TS-IO-RA2E2-02 |
| IO-Link PHY | RH4Z2501 |
| MCU | R7FA2E2A72DNK(RA2E2) |
| Sensor | Inductive sensor (Configure pattern on substrate) |
| Power supply | Supplied through IO-Link connector |
| Interface | IO-Link connector : M12A 4-Pin male (IO-Link device) MCU debug connector: MIPI10 pin |
| Dimensions | 104mm×18mm (Excluding connector) |



Web / Documents

| Category | Web |
|------------------------------------|--|
| Application Note | RA2E2 Examples of IO-Link Solutions |
| Sample Code incl. evaluation stack | RA2E2 Examples of IO-Link Solutions (My Renesas registration required) |
| Winning Combination | IO-Link Sensor Solution Renesas |

Company information



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