ATI INDUSTRIAL AUTOMATION

R-Style RTL (PNP) Proximity Switch Kit Installation Instructions

Mounting brackets attach a proximity sensor and steel target onto modules to integrate a RTL sensor input into an application.

> **NOTICE:** A PNP proximity sensor is supplied with the RTL Add-on Sensor Kit 9005-20-8693. A proximity sensor is not supplied with the RTL Add-on Target Kit 9005-20-8692.

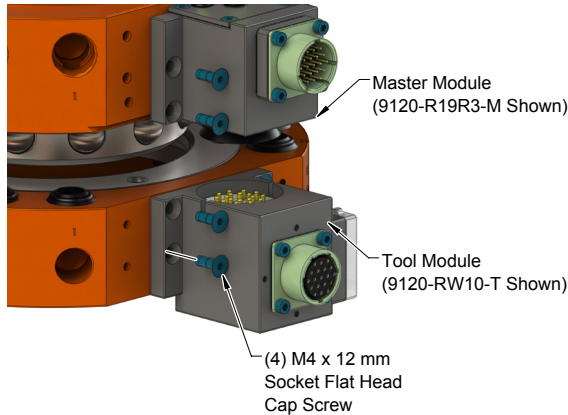## 1. Installing the R-Style RTL (PNP) Proximity Switch Kit

Parts required: RTL Add-on Sensor Kit p/n 9005-20-8693 and RTL Add-on Target Kit p/n 9005-20-8692

Tools required: 2.5 mm hex key wrench, torque wrench

1. Place the Tool in a secure location.

2. Uncouple the Master and Tool plates.

3. Turn off and de-energize all energized circuits (e.g. electrical, air, water, etc.).

4. Using a 2.5 mm he key wrench, remove the (4) M4 x 12 mm socket flat head screws from the left side of the Master and Tool modules.
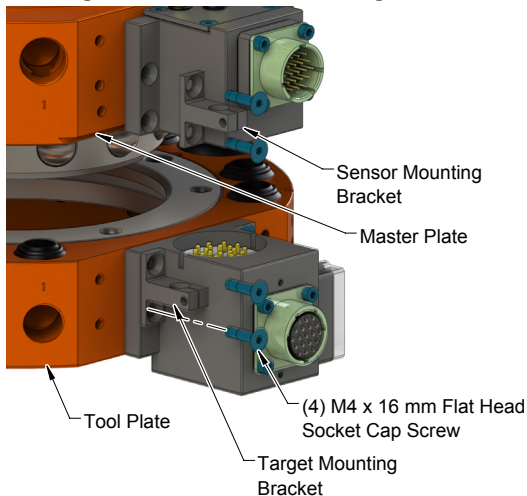
> **NOTICE:** The M4 x 12 mm screws will be replaced by the M4 x 16 mm screws from the kit.

Figure 1.1—Remove the Socket Flat Head Cap Screws

Master Module
(9120-R19R3-M Shown)

Tool Module
(9120-RW10-T Shown)
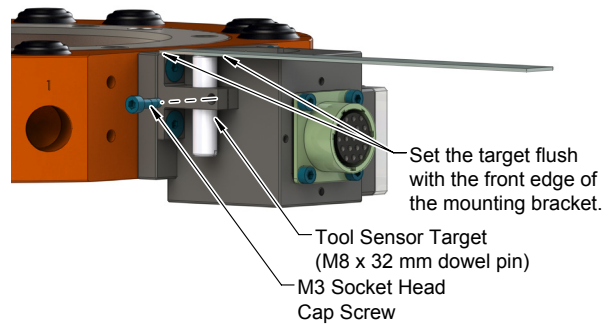
(4) M4 x 12 mm
Socket Flat Head
Cap Screw

5. Using a 2.5 mm hex key wrench, secure the sensor and target mounting brackets to the flat on the Master and Tool modules with the (4) M4 x 16 mm socket flat head cap screws. Tighten to 7 in-lbs (0.8 Nm).

Figure 1.2—Install the Mounting Brackets

Sensor Mounting
Bracket

Master Plate

Tool Plate

(4) M4 x 16 mm Flat Head
Socket Cap Screw
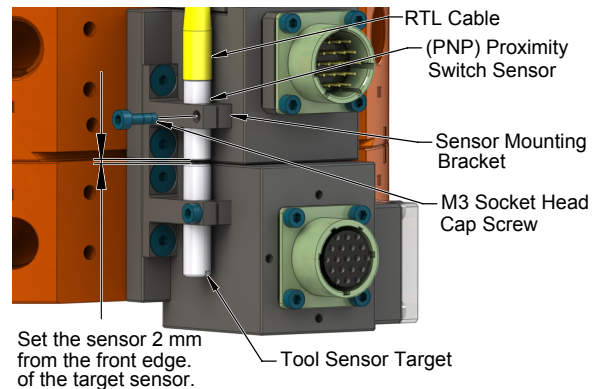
Target Mounting
Bracket

6. Insert the Tool sensor target through the target mounting bracket. Set the target flush with the front edge of the mounting bracket.

7. Using a 2.5 mm hex key wrench, install the M3 socket head cap screw to secure the target in the mounting bracket. Tighten to 25 in-oz (0.18 Nm).

Figure 1.3—Install the Tool Sensor Target

Set the target flush
with the front edge
of the mounting bracket.

Tool Sensor Target
(M8 x 32 mm dowel pin)

M3 Socket Head
Cap Screw

8. Insert the RTL proximity sensor in the sensor mounting bracket.

9. Position the (PNP) proximity switch sensor's face a distance of 2 mm from the Tool sensor target's front edge. Adjust the sensor as required.

Figure 1.4—Install the Proximity Sensor

RTL Cable

(PNP) Proximity
Switch Sensor

Sensor Mounting
Bracket

M3 Socket Head
Cap Screw

Set the sensor 2 mm
from the front edge.
of the target sensor.

Tool Sensor Target

10. Using a 2.5 mm hex key wrench, install the M3 socket head cap screw to secure the sensor in the mounting bracket. Tighten to 25 in-oz (0.18 Nm).

11. Connect the RTL cable to the sensor.

12. After the procedure is complete, resume normal operation.