920i® Programmable HMI Indicator/Controller

Panel Mount Enclosure Installation

This document contains drawings, replacement parts lists and instructions for installing panel mount models of *920i* indicators. See the *920i Installation Manual*, PN 67887, for general installation, configuration and calibration information.

WARNING

The 920i has no on/off switch. Before opening the unit, ensure the power cord is disconnected from the power outlet.

Use a wrist strap for grounding and to protect components from electrostatic discharge (ESD) when working inside the indicator enclosure.

This unit uses double pole/neutral fusing which could create an electric shock hazard. Procedures requiring work inside the indicator must be performed by qualified service personnel only.

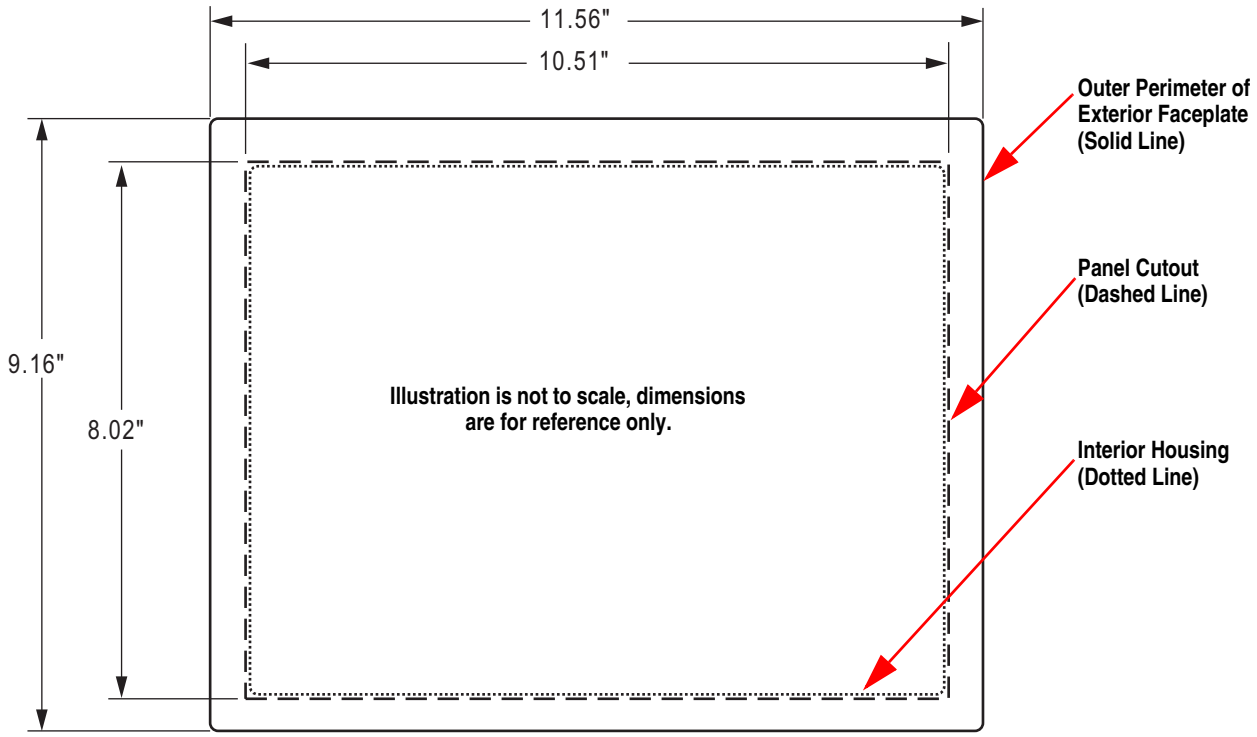

Figure 1. Panel Cutout for Panel Mount Enclosure

Installation

Use the dimensions shown in Figure 1 to lay out the panel cutout for the panel mount enclosure. See Figure 2 for enclosure dimensions.

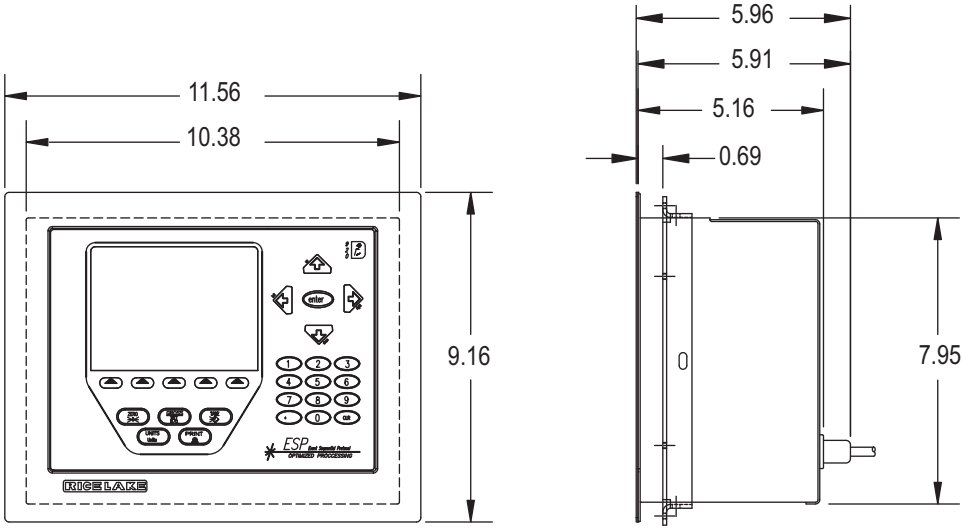

Figure 2. Panel Mount Enclosure Dimensions

Once the cutout has been prepared:

1. Insert the enclosure into the cutout from the front of the panel.
2. Install the reinforcing plate on the enclosure from the inside of the panel.
3. Install the clinching bracket on the enclosure from inside the panel.
4. Secure the bracket to the enclosure using the six 1/4" screws provided in the parts kit (PN 71522).
5. Use the nine 1 1/2" screws (PN 82425) to secure the clinching bracket to the panel door.

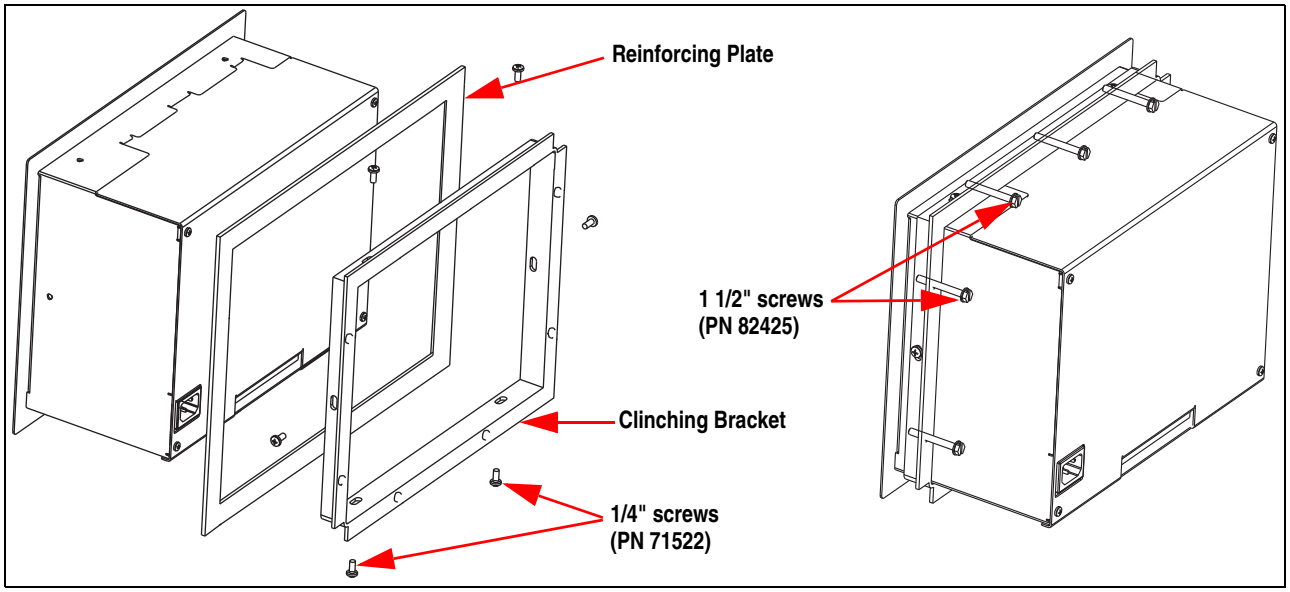

Figure 3. Clinching Bracket Assembly

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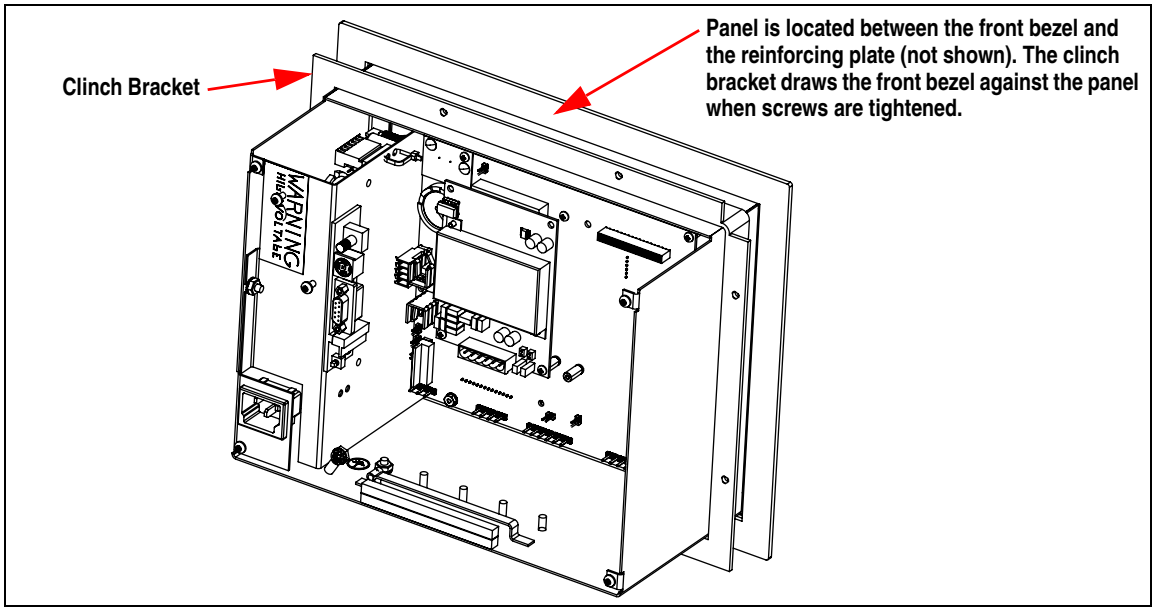

Figure 4. Panel Mount Enclosure

Grounding

Except for the power cord, all cables routed through the cord grips should be grounded against the indicator enclosure.

1. Install the ground clamps on the grounding bar, using the ground clamp screws. Do not tighten the screws at this time.
2. Route cables under cabling bar and through the cord grips and the grounding clamps to determine the cable lengths required to reach the cable connectors.

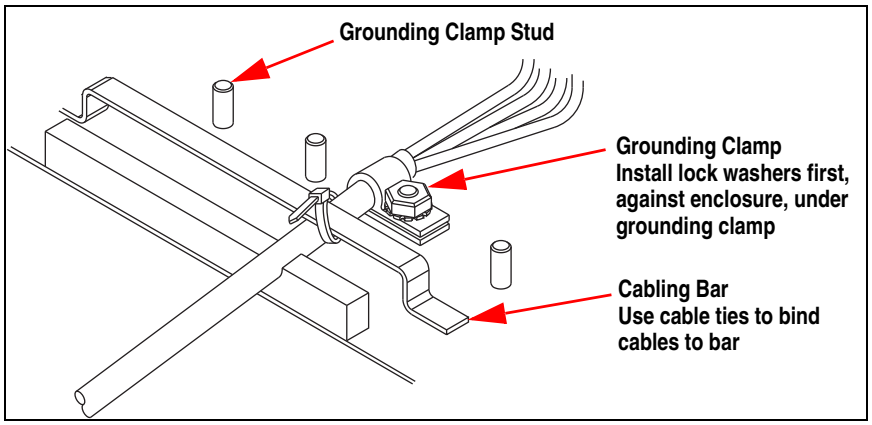

Figure 5. Cable Installation with Grounding Clamp

3. Mark the cables to remove insulation and shield. See Stripping Cables on next page.
4. Route stripped cables through the cord grips and grounding clamps.
5. Ensure the shields contact the grounding clamps and tighten the ground clamp screws.

Stripping Cables

Foil Insulated Cable

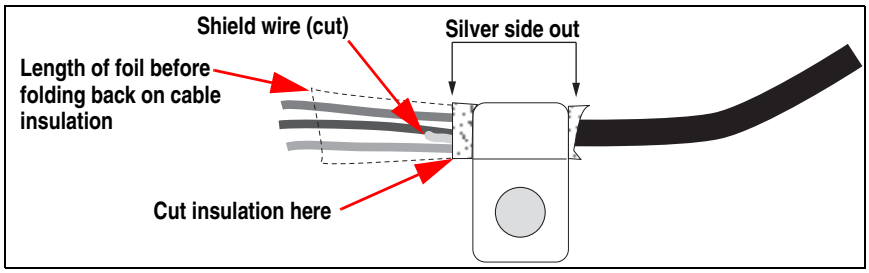

Figure 6. Foil Insulated Cable

1. Strip the insulation and foil from the cable 1/2″ (15 mm) past the grounding clamp.
2. Fold the foil shield back on the cable where the cable passes through the clamp.
3. Ensure the silver (conductive) side of the foil is turned outward for contact with the grounding clamp.

Braided Shielding

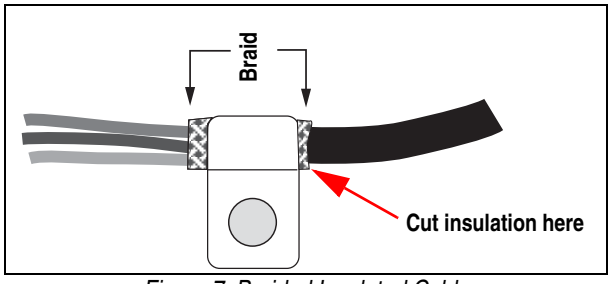

Figure 7. Braided Insulated Cable

1. Strip the insulation and braided shield from a point just past the grounding clamp.
2. Strip another 1/2″ (15 mm) of the insulation to expose the braid where the cable passes through the clamp.

Load Cell Cables

Cut the shield wire just past the grounding clamp. Shield wire function is provided by contact between the cable shield and the grounding clamp.

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Power Specifications

Line Voltages 115 or 230 VAC
Frequency 50 or 60 Hz
Maximum Power Consumption 65W on secondary
Primary power consumption:100W TRMS
Constant current:1.5 A TRMS (115VAC);
1.0 A TRMS (230VAC)

Fusing

115 VAC and 230 VAC North American

2 x 3.15A TR5 sub-miniature fuses
Wickmann Time-Lag 19374 Series
UL Listed, CSA Certified and Approved

230 VAC European

2 x 3.15A TR5 sub-miniature fuses
Wickmann Time-Lag 19372 Series
UL Recognized, Semko and VDE Approved

See the *920i* installation manual for additional specifications.

Parts Kit Contents

Table 1-1 lists the parts kit contents for the panel mount version of the *920i*.

Part No.	Description	Qty
14626	Kep nuts, 8-32NC	5
54206	Machine screws, 6-32 x 3/8	2
15133	Lock washers, No. 8, Type A	5
71522	Machine screws, 8-32NC x 1/4	6
82425	Machine screws, 10-32NF x 1-1/2	9
15631	Cable ties	4
53075	Cable shield ground clamps	5
42350	Capacity label	1
71095	Clinching bracket	1
15887	6-position screw terminal for load cell connection	1
70599	6-position screw terminals for J2 and J10	2
71126	4-position screw terminal for J9 and optional keyboard connection	2
71125	3-position screw terminal for J11	1

Table 1-1. Parts Kit Contents

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