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 enclosure, ensure the power cord is disconnected from the power outlet. Power outlet must be located near the product.**

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.

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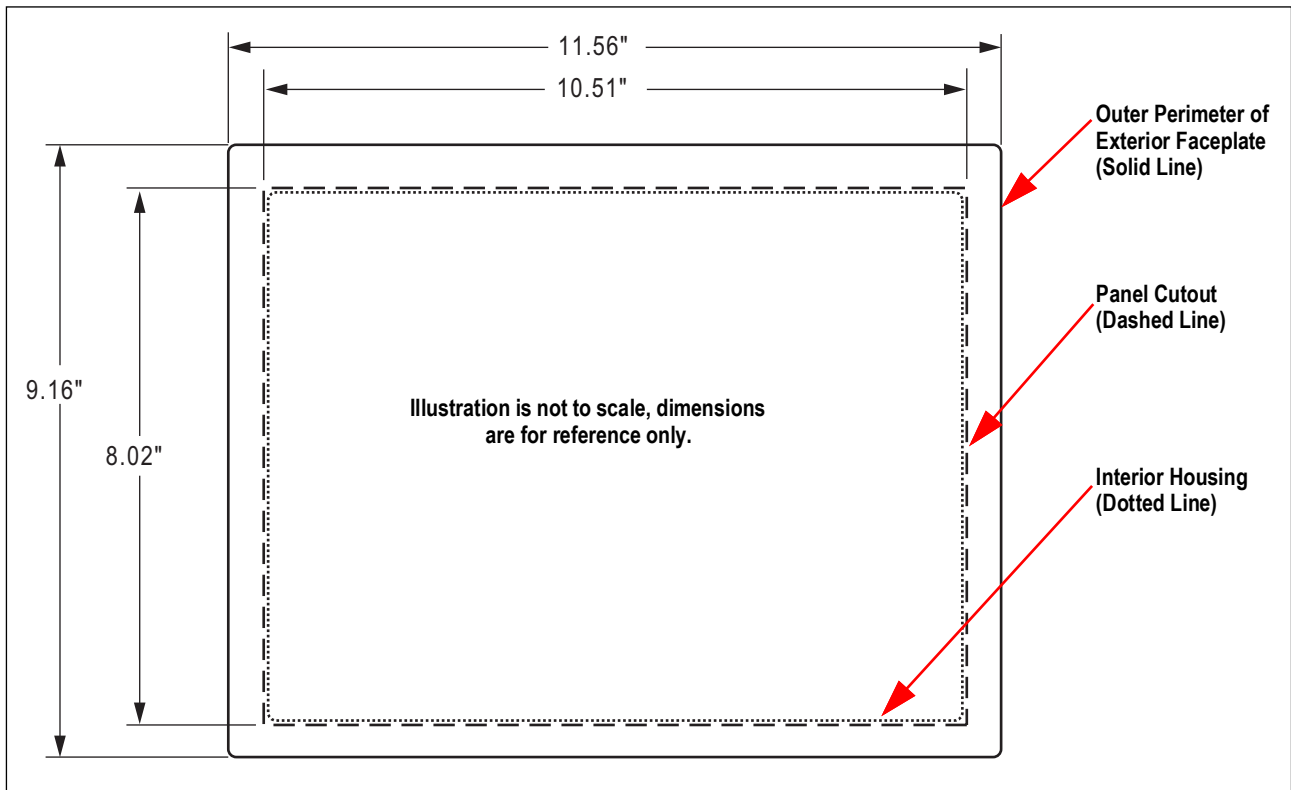

Figure 1. Panel Cutout for Panel Mount Enclosure

Installation

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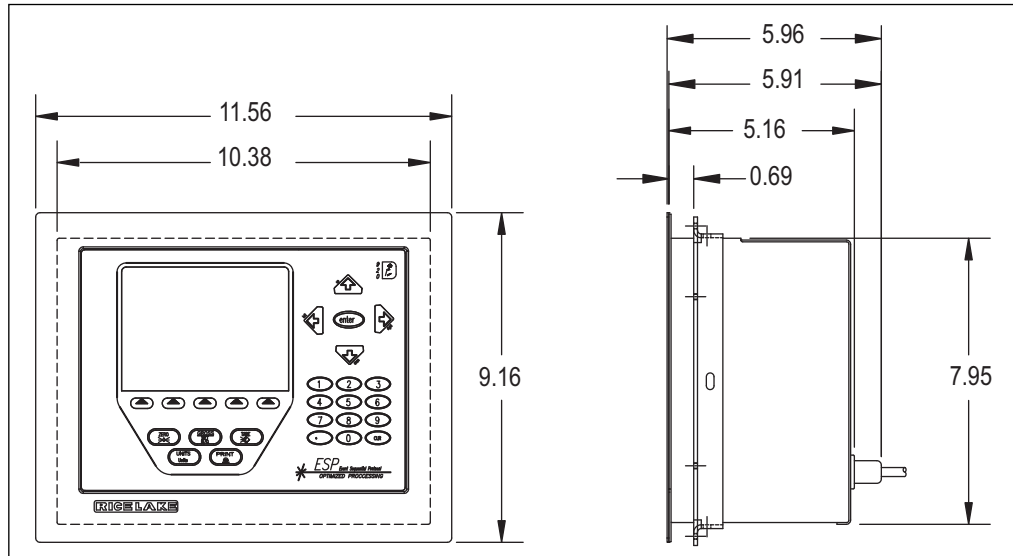

Figure 2. Panel Mount Enclosure Dimensions

Once the cutout has been prepared:

1. Insert the panel mount enclosure into the cutout from the front of the panel.
2. Slide the reinforcement plate on the enclosure from the inside of the panel.
3. Install the clinching bracket on the enclosure on the inside of the panel.
4. Secure the clinching bracket to the enclosure using the six 1/4" screws provided in the parts kit.
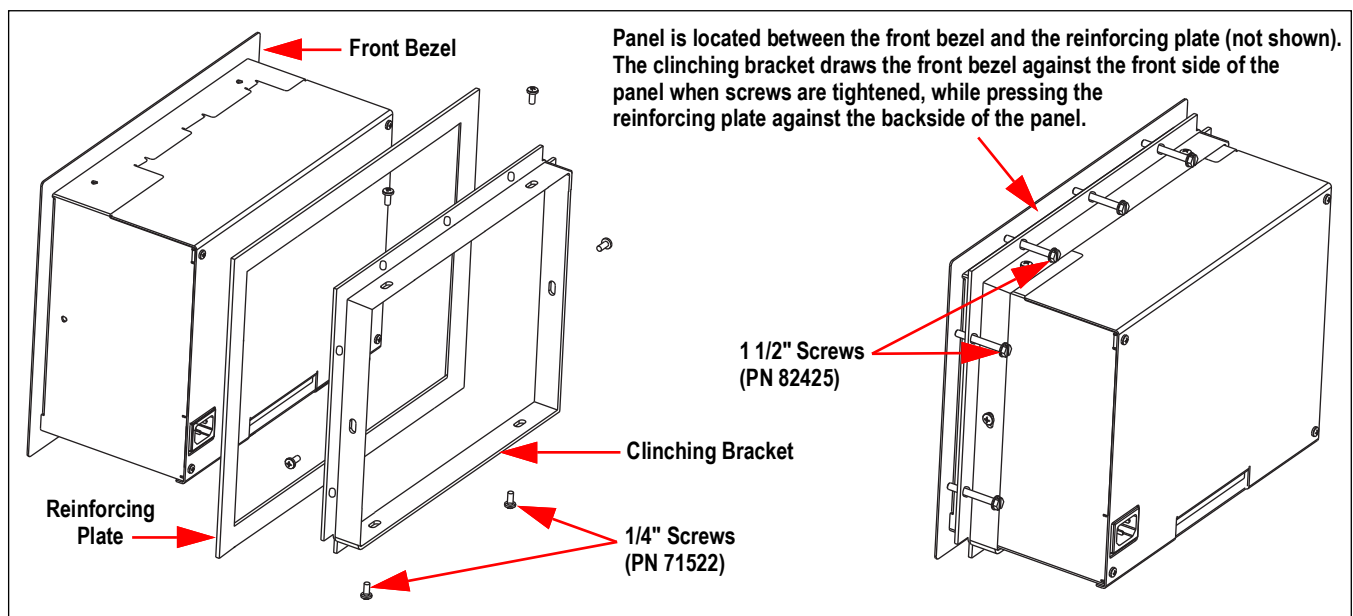5. Use the nine 1 1/2" screws, provided in the parts kit, to secure the panel mount enclosure to the panel.

Figure 3. Clinching Bracket Assembly

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.
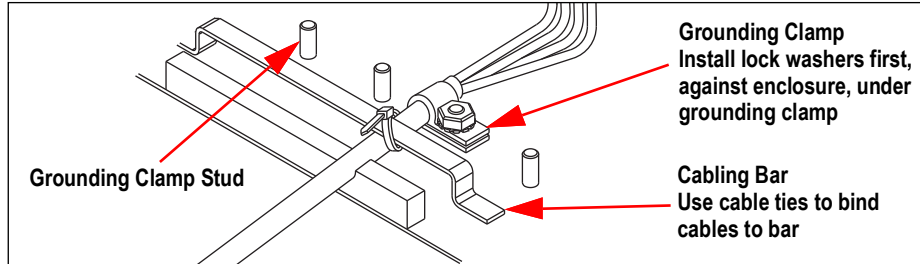
Grounding Clamp
Install lock washers first, against enclosure, under grounding clamp

Grounding Clamp Stud

Cabling Bar
Use cable ties to bind cables to bar

Figure 4. 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.
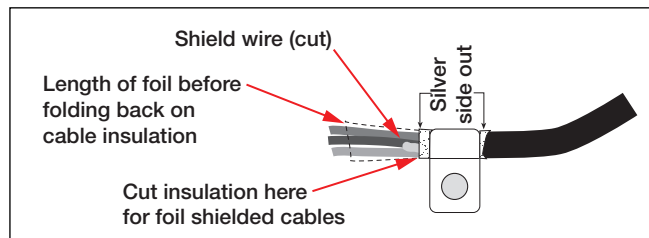
Stripping Cables

Foil Insulated Cable

Shield wire (cut)

Silver side out

Length of foil before folding back on cable insulation

Cut insulation here for foil shielded cables

Figure 5. 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.
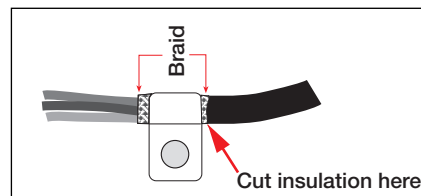
Braided Shielding

Braid

Cut insulation here

Figure 6. 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.

RICE LAKE
W E I G H I N G   S Y S T E M S

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 (PN 67887) for additional specifications.

Parts Kit Contents

Table 1 lists the contents of parts kit (PN 71428) for the panel mount version of the 920i.

Part No.	Description	Qty		Part No.	Description	Qty
71095	Clinching bracket	1		53075	Cable shield ground clamp	5
87608	Reinforcement plate	1		15887	6-position terminal block	1
14626	KEP nut, 8-32NC Hex	5		70599	6-position screw terminal	1
15133	Lock washer, No. 8, Type A	5		71125	3-position screw terminal	1
15631	Cable tie, 3 in	4		71126	4-position screw terminal	1
54206	Machine screw, 6-32 x 3/8	4		77180	8-position screw terminal	
71522	Machine screw, 8-32NC x 1/4	6		42350	Capacity label	1
82425	Machine screw, 10-32NF x 1-1/2	9		174928	NOM/NYCE label	1

Table 1. Parts Kit Contents

RICE LAKE®

WEIGHING SYSTEMS