

# Palletized Fixture Accessories

## Wireless Pallet Pressure Monitor



### Ensures Positive-Pressure Monitoring

- Install pressure switches.
- Find a place on the fixture for your transmitter.
- Find a place on your machine for your receiver.
- Wire your control box.
- No more tool crashes. *IT'S THAT SIMPLE!*

The Guardian™ gives you full time, "In Cycle", hydraulic pressure monitoring configured for your machine tool fixtures. Equipped with an IP 67 sealed pressure switch, sealed Fixture Transmitter, and M12 connectors; Guardian™ ensures positive-pressure monitoring even in the harshest environments. Best of all, you will enjoy easy pressure monitoring and machine tool notification with no interference issues.

The **Simple Guardian™** installs with four wires (Two power wires and a pair of M-code wires). It is a quick and clean installation needing no modifications to the machine tool control. Leave the M-Code check instructions out of your part program for non-monitored fixtures.

The **Base Guardian™** system requires six wires and continuously monitors only the pallet in the machining envelope. The pallet being loaded is ignored during the unload/reload process until it enters the machine. Once inside the machine enclosure, Guardian's™ "focused field" monitors the pallet. Accomplish immediate full-time machine communication by wiring directly into a feed-hold or e-stop control. Guardian notifies your machine immediately of any critical pressure loss.

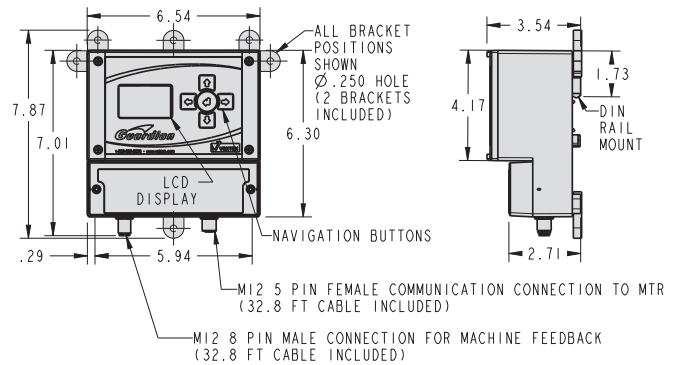
The **Base Plus Guardian™** requires eight wires and adds a second Machine Tool Receiver to install outside the machining envelope. This unit can check pressure on the incoming pallet before the machine indexes it into the machining envelope. Accomplish the external query with M-codes as long as sufficient spare codes available. Once indexed, the Machine Tool Receiver inside the machine enclosure monitors the fixture full time. The Master Control queries the Machine Tool Receiver as often as desired. You may also wire into the feed-hold or e-stop loop for full-time immediate machine communication.

- **Fixture Transmitters require no batteries, EVER!**
- Simplified connection via standard connectors and cables.
- Dedicated in-cycle monitoring or machine code polling of fixture status.
- Will not affect other plant wireless systems.
- Master Control Unit power requirements; 10-36 VDC from Machining Center.
- Fully Sealed Fixture Transmitters.



### Master Control Unit

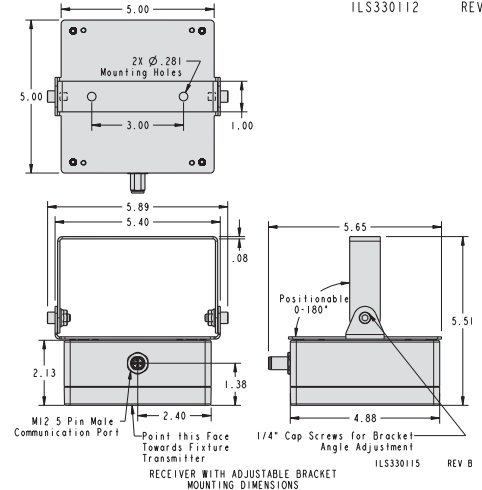
- 33-0110-14 Simple
- 33-0110-24 Base
- 33-0110-34 Base Plus



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### Machine Tool Receiver

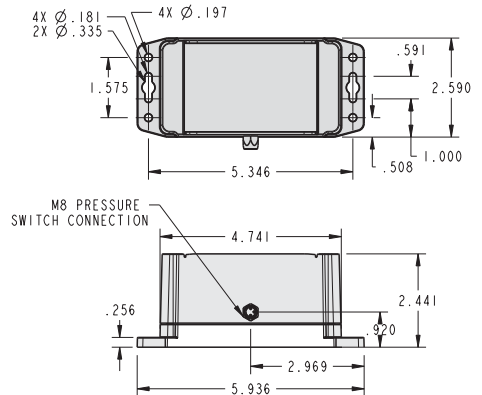
33-0111-02



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### Fixture Transmitter

33-0111-03



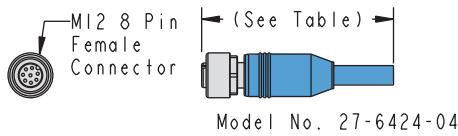
ILS330117 REV B

K-16

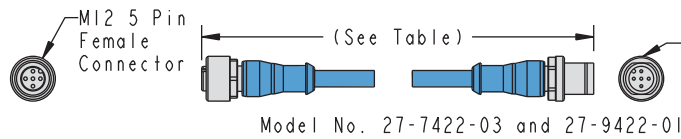
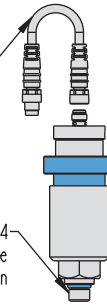


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## Wireless Pallet Pressure Monitor



Includes 19.7 IN M8 Shielded Cable  
P/N 27-7424-01  
For Direct Connection  
to Fixture Transmitter



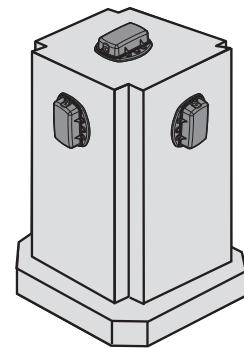
Model No. 70-7500-78

NOTE: All Guardian cables are shielded and PUR jacketed.

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## Guardian™ Accessories

| Cables            |                                                                                     |                  |                  |              |
|-------------------|-------------------------------------------------------------------------------------|------------------|------------------|--------------|
| Model No.         | Description                                                                         | End 1 Connection | End 2 Connection | Length (ft.) |
| 27-6424-04        | Cable, M12 8 Pin*                                                                   | Male Straight    | Open End         | 32.8         |
| 27-9422-01        | Cable, M12 5 Pin Master Control Unit to Machine Tool Receiver Communication Cable** | Male Straight    | Female Straight  | 32.8         |
| 27-7422-03        |                                                                                     |                  | Female Straight  | 16.4         |
| 27-7424-01        | Extension Cable, M8 3 Pin Pressure Switch to Fixture Transmitter                    | Male Straight    | Female Straight  | 1.6          |
| Pressure Switches |                                                                                     |                  |                  |              |
| 70-7500-78        | 750-5000 PSI Pressure Switch with 19.7 IN Cable (Shown)                             |                  |                  |              |
| 70-7500-74        | 750-5000 PSI Pressure Switch with M8 Male Connection Only***                        |                  |                  |              |



CORRECT LINE OF SIGHT  
TRANSMITTER PLACEMENTS

\* Included with Master control Units 33-0110-14, 33-0110-24 and 33-0110-34. Can be purchased separately for replacement or additional hook up.

\*\* 27-9422-01 is included with 33-0110-14. Cables can be purchased separately for extension or replacement.

\*\*\* 70-7500-74 requires User Provided 3 Pin M8 Cable.

## Convenience Packages



K-17

### The Simple and Base Guardian™ Systems

- 2 Fixture Transmitter Units
- 2 Pressure Switches and cables
- 1 Machine Tool Receiver
- Master Control
- All necessary wiring

### Guardian™ Base Plus System

- 2 Fixture Transmitter Units
- 2 Pressure Switches and cables
- 2 Machine Tool Receivers
- Master Control
- All necessary wiring

## Guardian™ Convenience Packages

| Model No.  | Type      | Description                                                                                                          |
|------------|-----------|----------------------------------------------------------------------------------------------------------------------|
| 33-0111-10 | Simple    | Guardian™ Simple, Monitors only the fixture inside the machining enclosure on demand.                                |
| 33-0111-20 | Base      | Guardian™ Base, Monitors only the fixture inside the machining enclosure.                                            |
| 33-0111-30 | Base Plus | Guardian™ Base Plus, Monitors the fixture inside the machine enclosure and can confirm pressure at the load station. |

