

**ELECTRICAL CONNECTIONS
AND
GENERAL INFORMATION**

All wiring must be installed in accordance with national and local electrical codes.

-WARNING-

SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

The customer leads are located in the bottom of the dispenser in the explosion-proof box. All unused wires must be capped or taped off.

WIRE COLOR	WIRE NUMBER	DESCRIPTION
Black 18 AWG	1	120 VAC head power hot line. If power is interrupted on this line, The head will go into standby and Power-fail modes. If an ESD system is used, removing voltage from this line will disable all dispenser functions.
White 18 AWG	2	Common for dispenser power and main board authorize/authorize request circuit.
Green 14 AWG	3	Earth Ground This line is connected internally to the casting and must be connected to the service ground. Per NFPA 70 (NEC).
Brown 18 AWG	14	Authorize input. Application of 120 V ac will authorize the electronic head to dispense product, if 120 V ac is not present when the handle switch is turned on the dispenser will not authorize until voltage is present.

WIRE COLOR	WIRE NUMBER	DESCRIPTION
Red 18 AWG	8	Solenoid valve output. When the electronic head is ready to dispense product, voltage will be applied to this line. This is normally connected to the solenoid valve. This wire is also used as an IN USE signal, after the reset has completed. This voltage will go away if the handle is shut off (120 V ac). This is used in most common card readers and consoles.
Red 18 AWG	80	This is the wire directly from the solenoid valve. In normal operation there is a jumper from #8 to #80. Some card readers will switch this line to control gas from the card reader.

LOW VOLTAGE LINES

THE PULSER OUTPUT IS AN OPTICALLY COUPLED OPEN COLLECTOR TRANSISTOR. THIS TRANSISTOR IS CAPABLE OF SWITCHING UP TO 40 V dc @ 100 mA.

Yellow 18 AWG	4	Emitter: if the transistor needs to sink the pulse signal, this line needs to be connected to the pulser power supply common. If the transistor needs to source the pulse line, this line is the pulse output.
Blue 18 AWG	18	Collector: if the transistor needs to sink the pulse signal, this line is the pulse output. If the transistor needs to source the pulse signal, this line is to be connected to the pulser power supply positive line.