

Critical Environment Technologies Canada Inc.

www.critical-environment.com Ph: 877-940-8741 (toll free) Ph: 604-940-8741

DRAWING NO. 2W-13
GEM-DECO-SCB-J
WIRING TO CONTROL VFDs

GEM TYPE "D" 2-CHANNEL SELF-CONTAINED GAS DETECTION SYSTEM. ONE INTEGRAL CO SENSOR AND ONE LOWER MOUNTED COMBUSTIBLE GAS SENSOR

NOTE: THIS PHOTO SHOWS THE OPTIONAL LED DIGITAL DISPLAY

NOTE: TWO INTERNAL DRY CONTACT RELAYS ARE RATED 5-AMPS @ 240VAC EACH S.P.D.T.

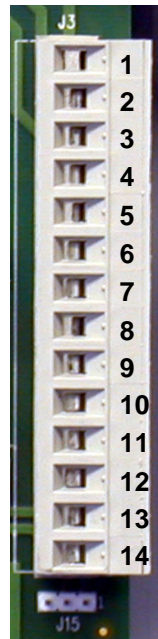
DO NOT RUN LINE VOLTAGE AND LOW VOLTAGE WIRES IN SAME CONDUIT

GEM MOUNTING HEIGHT 4' TO 6' FROM THE FLOOR "BREATHING ZONE"



INSTALLER SUPPLIED LOW VOLTAGE OPERATING POWER

WIRING TERMINAL STRIP FROM GEM



- 1 N/O
- 2 COM
- 3 N/C
- 4 N/O
- 5 COM
- 6 N/C
- 7 4-20
- 8 NEG
- 9 POS
- 10 SIG+
- 11 NEG
- 12 GND
- 13 24V
- 14 24V

CONNECT 4-20 OUTPUT TO ACTUATOR FOR VFD

CONNECT TO RED WIRE

CONNECT TO YELLOW WIRE

CONNECT TO BLACK WIRE

THE ABOVE IS WIRING CONNECTIONS TO REMOTE SOLID-STATE SENSOR

CONDUIT AND 3-CONDUCTOR WIRE TO REMOTE SENSOR SUPPLIED BY INSTALLER

NOTE: STANDARD ELECTRICAL JUNCTION BOX MUST BE SUPPLIED BY INSTALLER

REMOTE SENSOR (SOLID-STATE) CALIBRATED FOR PROPANE & GASOLINE VAPOURS

NOTE-1: IN THIS INSTALLATION, THE REMOTE SENSOR IS FOR HEAVIER THAN AIR COMBUSTIBLE GASES SUCH AS PROPANE & GASOLINE VAPOURS. THE SENSOR SHOULD BE INSTALLED 6" FROM FLOOR.

NOTE-2: FOR LIGHTER THAN AIR GASES SUCH AS METHANE (NATURAL GAS) AND HYDROGEN, THE SENSOR SHOULD BE INSTALLED ON OR NEAR THE CEILING.

NOTE-3: REFRIGERANTS ARE HEAVIER THAN AIR SO THE REMOTE SENSOR MOUNTING LOCATION SHOULD REFLECT THIS OR BE INSTALLED IN AN AREA WHERE A LEAK IS MOST LIKELY TO OCCUR