Power and Data interface box
For the AR200 laser sensor

User’s Manual

For use with AR200™ Rev. 1.06
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This is a photo of the connectivity box which shows the sealed, cable gland where the AR200’s cable feeds through into a wire termination block. Also displayed is the connection socket for the AC power supply.

This photo reveals the inside of the connectivity box. This box is NEMA-4X and can be wall or bracket mounted. It is also possible to take signals out of the connectivity box using the convenient terminal block connections and the second sealed cable feedthrough.
AR200 POWER SUPPLY/ SERIAL INTERFACE
INSTALLATION INSTRUCTIONS:
1. TRIM CONDUCTORS FROM SENSOR CABLE TO 2 INCHES
2. STRIP .2 INCHES OF INSULATION FROM EACH CONDUCTOR.
3. CUT OFF AND DISCARD UNINSULATED SHIELD WIRE.
4. REMOVE LID FROM POWER SUPPLY INTERFACE BOX
5. PUSH POWER SUPPLY CABLE THROUGH CABLE GLAND ON THE
SENSOR CABLE SIDE OF THE BOX SO THE OUTER SHEATH IS FLUSH
WITH THE INSIDE SURFACE OF THE CABLE GLAND.
6. CLAMP EACH CONDUCTOR INTO THE TERMINAL BLOCK PER
COLOR LABELING.
7. PLUG POWER SUPPLY AND SERIAL CABLE INTO INTERFACE BOX.
8. IF OTHER USER CONTROLS ARE TO BE USED, ATTACH THEM TO
OTHER INTERFACE TERMINAL BLOCK.
9. REPLACE THE LID AND TIGHTEN SCREWS.

WALL MOUNT POWER SUPPLY

CABLE GLAND

POWER SUPPLY/ INTERFACE BOX

6' SERIAL CABLE

PCB TOP DETAIL

SENSOR CABLE

BLACK
WHITE
BLUE
GREEN
YELLOW
ORANGE
RED
BROWN

GROUND
LASER DISABLE
RX RX ENABLE
TX DATA
Rx DATA
CURRENT LOOP
+15 VDC
CL RET.