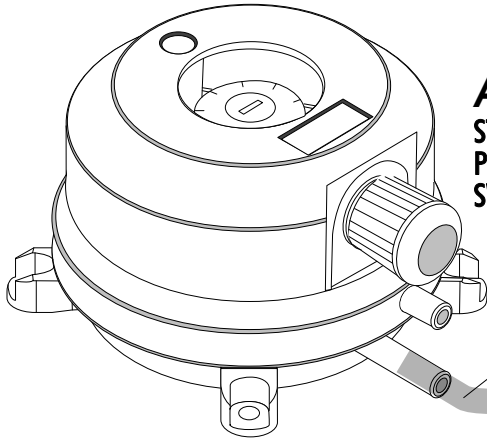


STATIC PRESSURE SWITCH

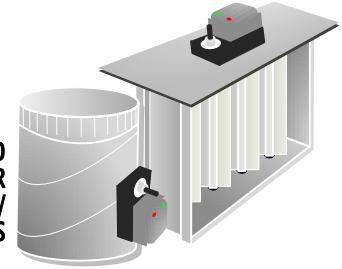
ASPC-2



ASPC-2 STATIC PRESSURE SWITCH

CONNECT THE FLEXIBLE TUBING TO THE HIGH-PRESSURE INLET AS SHOWN

USE WITH ROUND OR RECTANGULAR POWER OPEN/CLOSE DAMPERS



(AIR PROBE)

PITOT TUBE

INCLUDED WITH TUBING TO MOUNT IN A PLACE TO ACCURATELY MEASURE PLENUM PRESSURE. LOCATE AT LEAST 2 FEET DOWNSTREAM OF AIR SOURCE AS CLOSE TO CENTER OF THE AIRSTREAM POSSIBLE
DO NOT ALLOW SUPPLY AIR PRESSURE TO BLOW DIRECTLY INTO THE PITOT TUBE

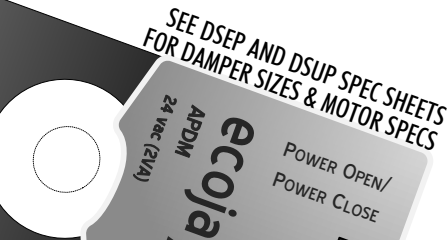


DESCRIPTION

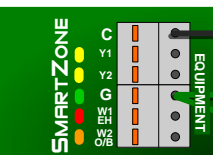
THE STATIC PRESSURE SWITCH DETECTS PLENUM AIR PRESSURE AND CAN BE USED WITH POWER-OPEN/CLOSE DAMPERS TO CREATE A "MODULATING" BYPASS DAMPER. WHEN CONFIGURED PROPERLY, THIS METHOD OF BYPASS IS THE MOST EFFICIENT OPTION FOR AIR PRESSURE RELIEF IN A ZONING APPLICATION.

WIRING

POWERED BY EQUIPMENT FAN, WIRE AS SHOWN BELOW. (DO NOT CONNECT TO ZONE TRANSFORMER)

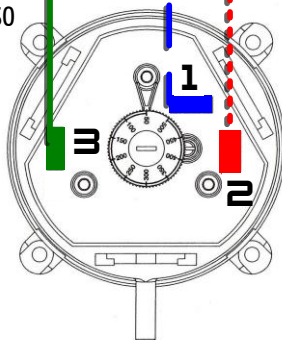


SEE DSEP AND DSUP SPEC SHEETS FOR DAMPER SIZES & MOTOR SPECS



USE 18 AWG SOLID CORE WIRE

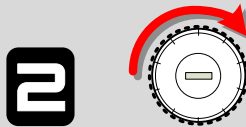
TO EQUIPMENT FAN ALSO



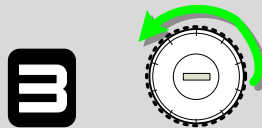
CONFIGURATION

THE GOAL IS TO CALIBRATE THE BYPASS DAMPER SO THAT IT IS "BARELY" STAYING CLOSED WHEN ALL ZONES ARE OPEN. THIS WILL CAUSE THE BYPASS DAMPER TO OPEN IF SUPPLY DAMPERS CLOSE AND THE PLENUM PRESSURE INCREASES. FOLLOW THE STEPS BELOW.

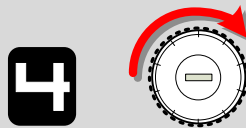
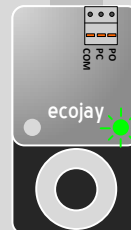
1 MAKE A CALL FROM ALL ZONES FOR COOLING SO ALL ZONE DAMPERS ARE FULLY OPEN AND THE EQUIPMENT FAN (BLOWER) IS RUNNING AT THE HIGHEST SPEED.



2 TURN KNOB CLOCKWISE SLOWLY UNTIL THE BYPASS DAMPER MOTOR STARTS CLOSING. IF DAMPER STARTS OPENING AGAIN BEFORE FULLY CLOSING, TURN THE KNOB CLOCKWISE SLOWLY UNTIL IT STARTS CLOSING AGAIN. REPEAT THIS PROCESS UNTIL THE DAMPER IS FULLY CLOSED. (RED LED WILL BE ON)



3 VERY SLOWLY TURN THE KNOB COUNTER-CLOCKWISE UNTIL THE BYPASS DAMPER MOTOR STARTS TO OPEN. (RED LED WILL GO OFF)



4 JUST AS SOON AS THE MOTOR STARTS TO RUN OPEN, TURN THE KNOB BACK CLOCKWISE JUST ENOUGH THAT THE DAMPER MOTOR STAYS CLOSED. (RED LED WILL BE SOLID)



TESTING

TO TEST IF BYPASS IS SIZED AND CONFIGURED PROPERLY, MAKE A CALL ONLY FROM THE SMALLEST ZONE FOR COOLING WITH THE FAN AT THE HIGHEST SPEED AND THE BYPASS DAMPER SHOULD FULLY OR ALMOST FULLY OPEN WITHIN 1 TO 2 MINUTES

MOUNTING

MOUNT WITH THE SAMPLE LINE CONNECTIONS IN THE "DOWN" POSITION. USE SCREWS & STANDOFFS THROUGH AT LEAST TWO OF THE FOUR MOUNTING FEET HOLES.

SPECIFICATIONS

SET POINT RANGE	0.20" w.c. TO 2.00" w.c.
PRESSURE CONNECTIONS	(50 TO 500 Pa) P1 (+) HIGH PRESSURE P2 (-) LOW PRESSURE
SWITCHING DIFFERENTIAL	20Pa (0.08" w.c.)
MAXIMUM PRESSURE	10KPa
OPERATING TEMPERATURE	-4 °F TO +140 °F
ELECTRICAL RATING	1.0 A MAX
CONTACT ARRANGEMENT	SPDT
ELECTRICAL CONNECTIONS	1 NO – OPER. CONTACT 2 NC – BREAK CONTACT 3 COM – POWER SUPPLY
CONDUIT CONNECTION	1/2" NPT THREADED
SAMPLE LINE CONNECTIONS	1/4" ID TUBING
WEIGHT	5.6 Oz



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