DISIO THERMOSTAT - REMOTE SENSOR APPLICATION
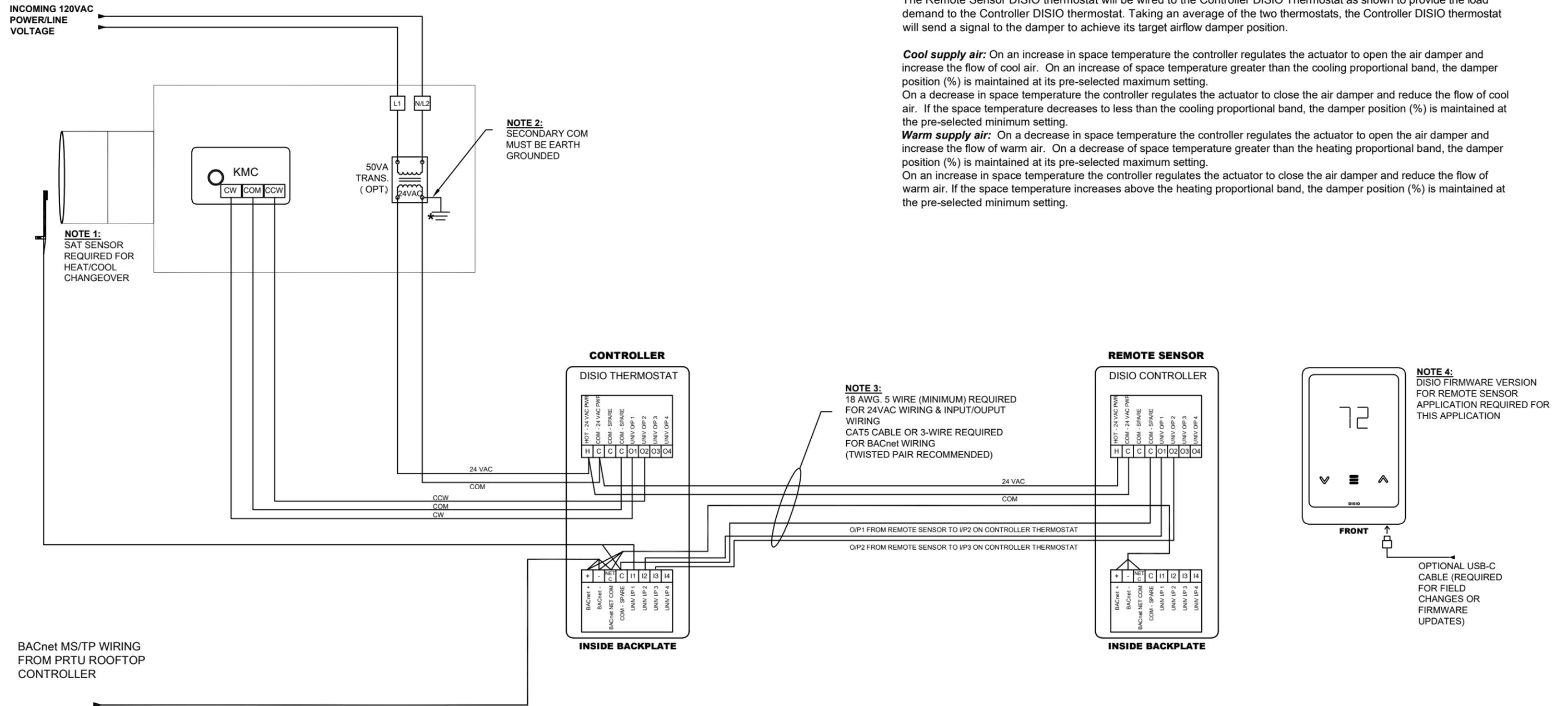
SEQUENCE OF OPERATION FOR DISIO REMOTE SENSOR APPLICATION:

The Controller DISIO thermostat will be wired to the actuator on the provided terminal unit, and will follow the below sequence of operation.

The Remote Sensor DISIO thermostat will be wired to the Controller DISIO Thermostat as shown to provide the load demand to the Controller DISIO thermostat. Taking an average of the two thermostats, the Controller DISIO thermostat will send a signal to the damper to achieve its target airflow damper position.

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

INCOMING 120VAC POWER/LINE VOLTAGE

L1   N/L2

NOTE 2:
SECONDARY COM MUST BE EARTH GROUNDED

KMC
CW   COM   CCW

50VA TRANS. (OPT.)   24VAC

NOTE 1:
SAT SENSOR REQUIRED FOR HEAT/COOL CHANGEOVER

CONTROLLER
DISIO THERMOSTAT

REMOTE SENSOR
DISIO CONTROLLER

NOTE 3:
18 AWG. 5 WIRE (MINIMUM) REQUIRED FOR 24VAC WIRING & INPUT/OUPUT WIRING
CAT5 CABLE OR 3-WIRE REQUIRED FOR BACnet WIRING
(TWISTED PAIR RECOMMENDED)

NOTE 4:
DISIO FIRMWARE VERSION FOR REMOTE SENSOR APPLICATION REQUIRED FOR THIS APPLICATION

72

DISIO

FRONT

24 VAC
COM

CCW
COM
CW

24 VAC
COM

O/P1 FROM REMOTE SENSOR TO I/P2 ON CONTROLLER THERMOSTAT
O/P2 FROM REMOTE SENSOR TO I/P3 ON CONTROLLER THERMOSTAT

OPTIONAL USB-C CABLE (REQUIRED FOR FIELD CHANGES OR FIRMWARE UPDATES)

INSIDE BACKPLATE

INSIDE BACKPLATE

BACnet MS/TP WIRING FROM PRTU ROOFTOP CONTROLLER

PROJECT:	HOLSTEIN PROJECT - LANCASTER HEATING & COOLING		PRICE®
ENGINEER:			**DISIO DISPLAY**
CUSTOMER:		CXY30459	DISIO THERMOSTATS REMOTE SENSOR APPLICATION
SUBMITTAL DATE:	SPEC. SYMBOL:	17/06/2024	