

SUBMITTAL

DSD-LF: DUCT SMOKE DETECTOR - LOW FLOW (D4120A)

APPLICATION

THE D4120A DUCT SMOKE DETECTOR DETECTS SMOKE IN AIR DUCT SYSTEMS, PREVENTING HAZARDOUS SMOKE FROM SPREADING. USING 4-WIRE PHOTOELECTRIC TECHNOLOGY, IT SAMPLES AIR AT 100-4000 FPM, TRIGGERING AN ALARM WHEN SMOKE IS DETECTED. THIS ALLOWS FOR ACTIONS SUCH AS SHUTTING OFF FANS OR CONTROLLING COMBINATION FIRE-SMOKE AND SMOKE DAMPERS.

DESIGNED FOR 24 VDC/VAC OR 120 VAC, IT FEATURES ALARM AND SUPERVISORY RELAYS FOR INTEGRATION WITH HVAC AND CONTROL PANELS. AUXILIARY RELAYS ENABLE FAN/DAMPER SHUTDOWN, WITH INTERCONNECTION FOR UP TO 50 DETECTORS FOR MULTIPLE FAN SHUTDOWNS. THIS 4-WIRE DETECTOR IS NOT FOR 2-WIRE APPLICATIONS. IF POWERED BY AC AND MONITORED BY A ULC-LISTED FACP, THE FIRE ALARM ZONE MUST BE SET AS A MONITOR ZONE.

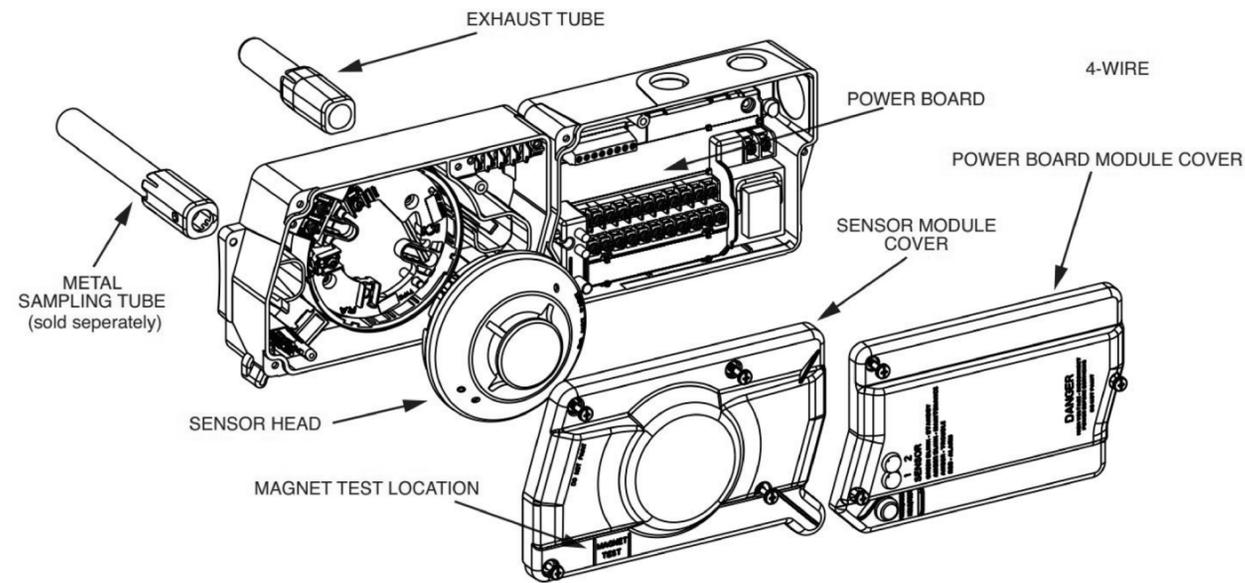
PLEASE REFER TO NFPA90A / NFPA72 / ULC-S524 AND LOCAL CODES TO DETERMINE WHERE SMOKE DETECTORS ARE REQUIRED. SEE MANUFACTURER DATASHEET FOR COMPATIBLE ACCESSORIES.

OPTIONS

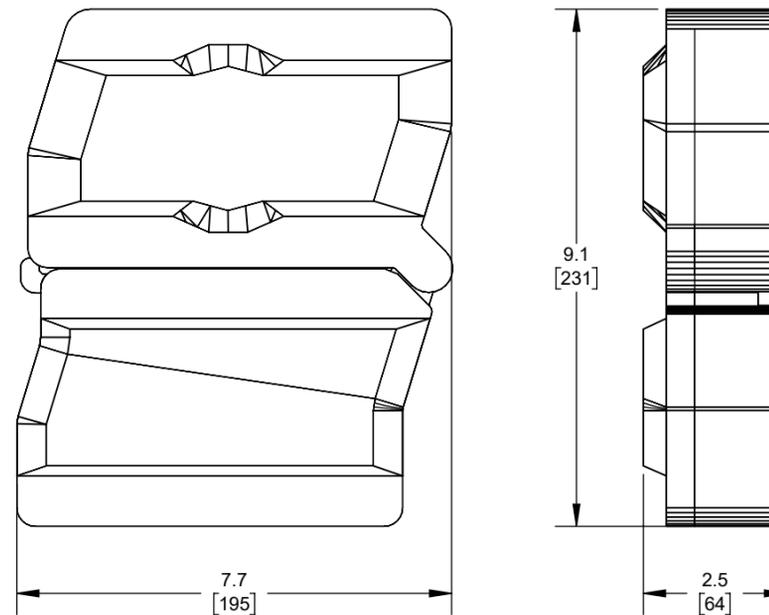
- FACTORY INSTALLED
- SHIPPED LOOSE

SUPPLEMENTARY INFORMATION

- [SYSTEM SENSOR D4120A INSTALLATION AND MAINTENANCE INSTRUCTIONS](#)
- [SYSTEM SENSOR D4120A DATASHEET](#)



EXPLODED VIEW



SQUARE CONFIGURATION

(SEE MFG. INSTRUCTIONS FOR RECTANGULAR TO SQUARE CONVERSION)



CONSTRUCTION:

MODEL: SYSTEM SENSOR D4120A
TYPE: PHOTOELECTRIC
VELOCITY: 100 TO 4000 FPM
WEIGHT: 2.5 LBS.
OPERATING TEMPERATURE: -4°F TO 158°F (-20° TO 70°C)
OPERATING HUMIDITY: 0% TO 95% RH
OPERATING VOLTAGES: 24 VAC/VDC, 120 VAC
WIRING: SOLID OR STRANDED #12 TO #18 AWG
UL/ULC LISTING: ULC S529, FILE # S911

ASSEMBLY AND INSTALLATION:

- ALL COMPONENTS SHOWN ARE FACTORY ASSEMBLED BY PRICE UNLESS OTHERWISE NOTED
- ALL INSTALLATION BY OTHERS AND METHODS SHOWN ARE NOTIONAL
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NOTES:

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REV	DATE	DRAWN BY	CHECKED BY

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TOLERANCES UNLESS OTHERWISE SPECIFIED
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PROJECT

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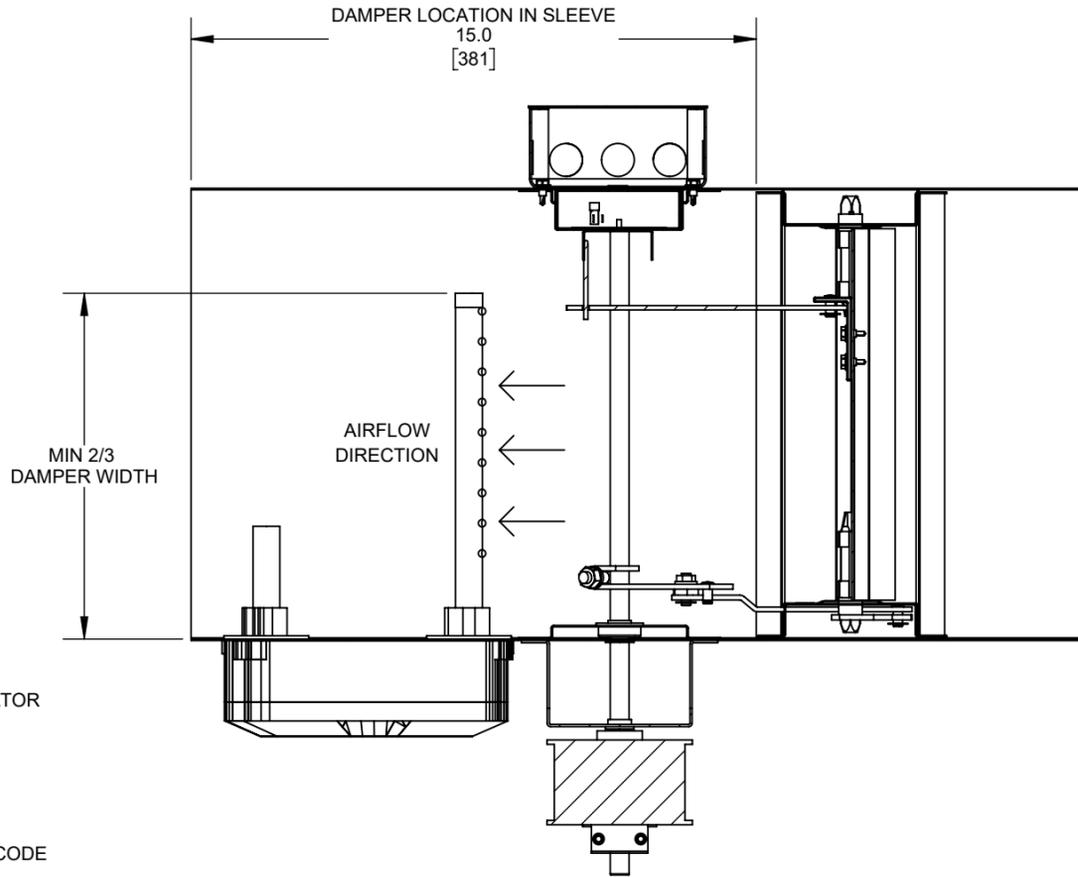
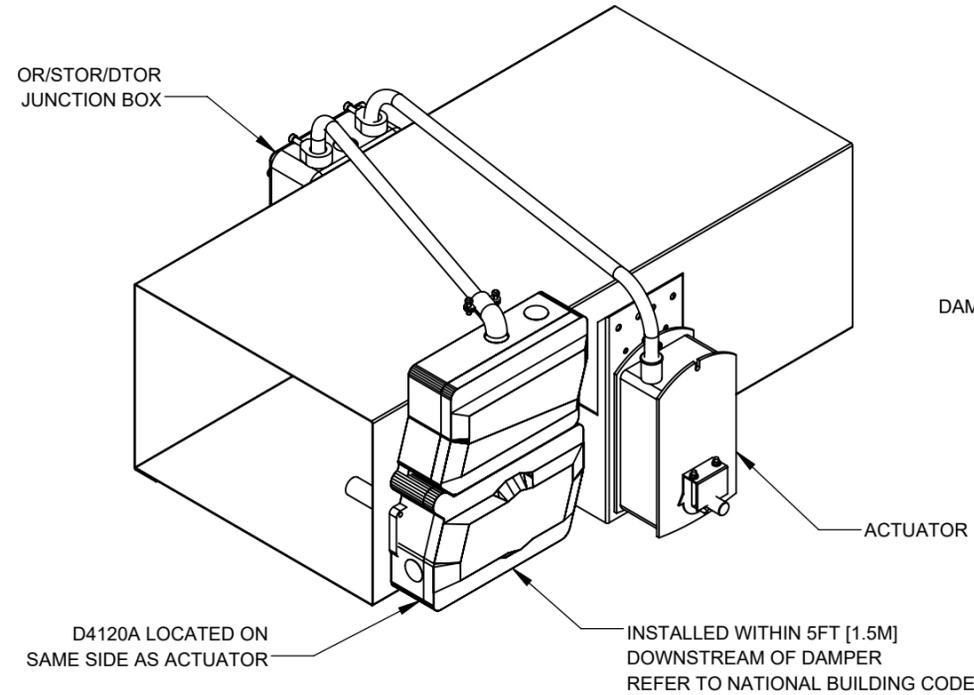
SUBMITTAL NUMBER	278018	SHEET	SIZE
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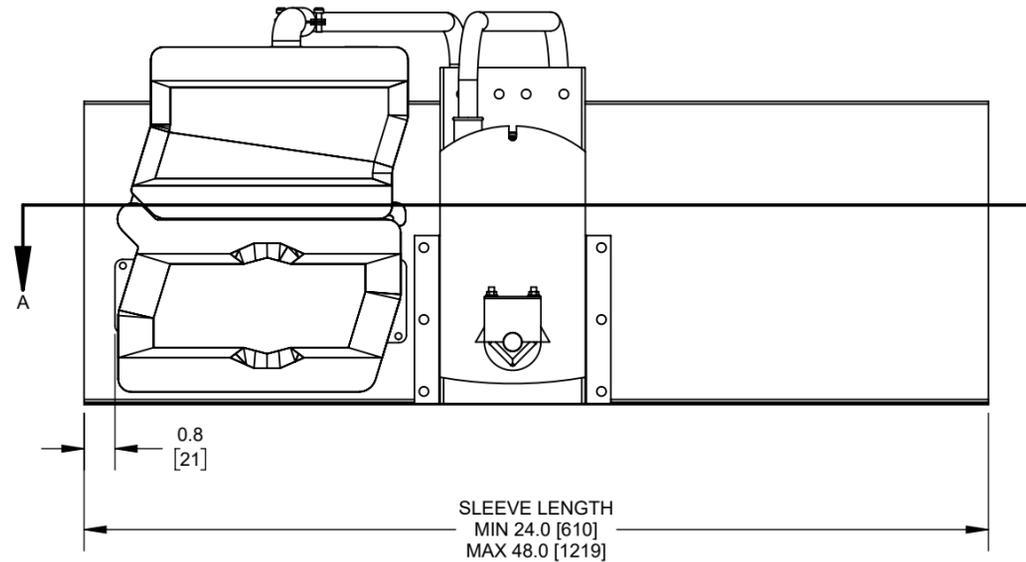
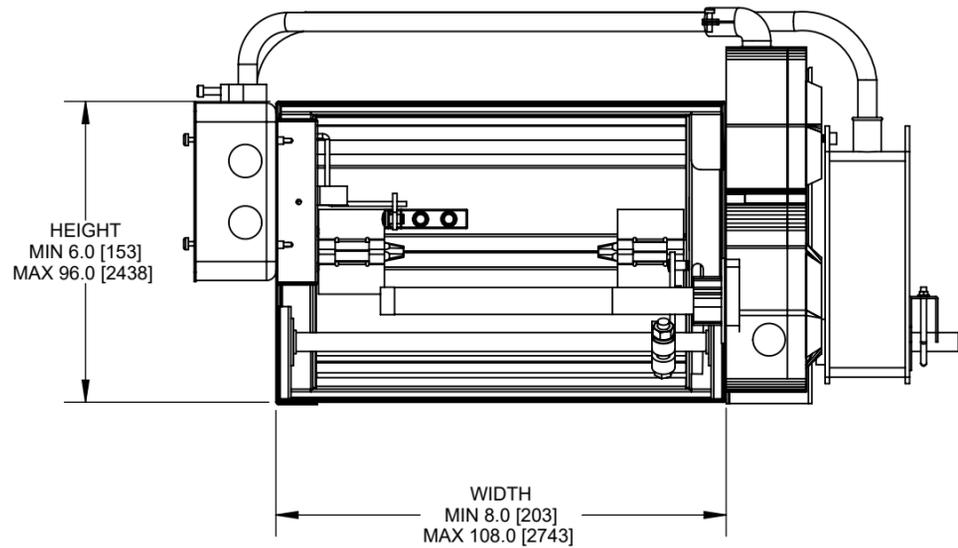
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FACTORY MOUNTING DETAILS

(FSD 12" X 8" WITH STOR SHOWN)



SECTION A-A



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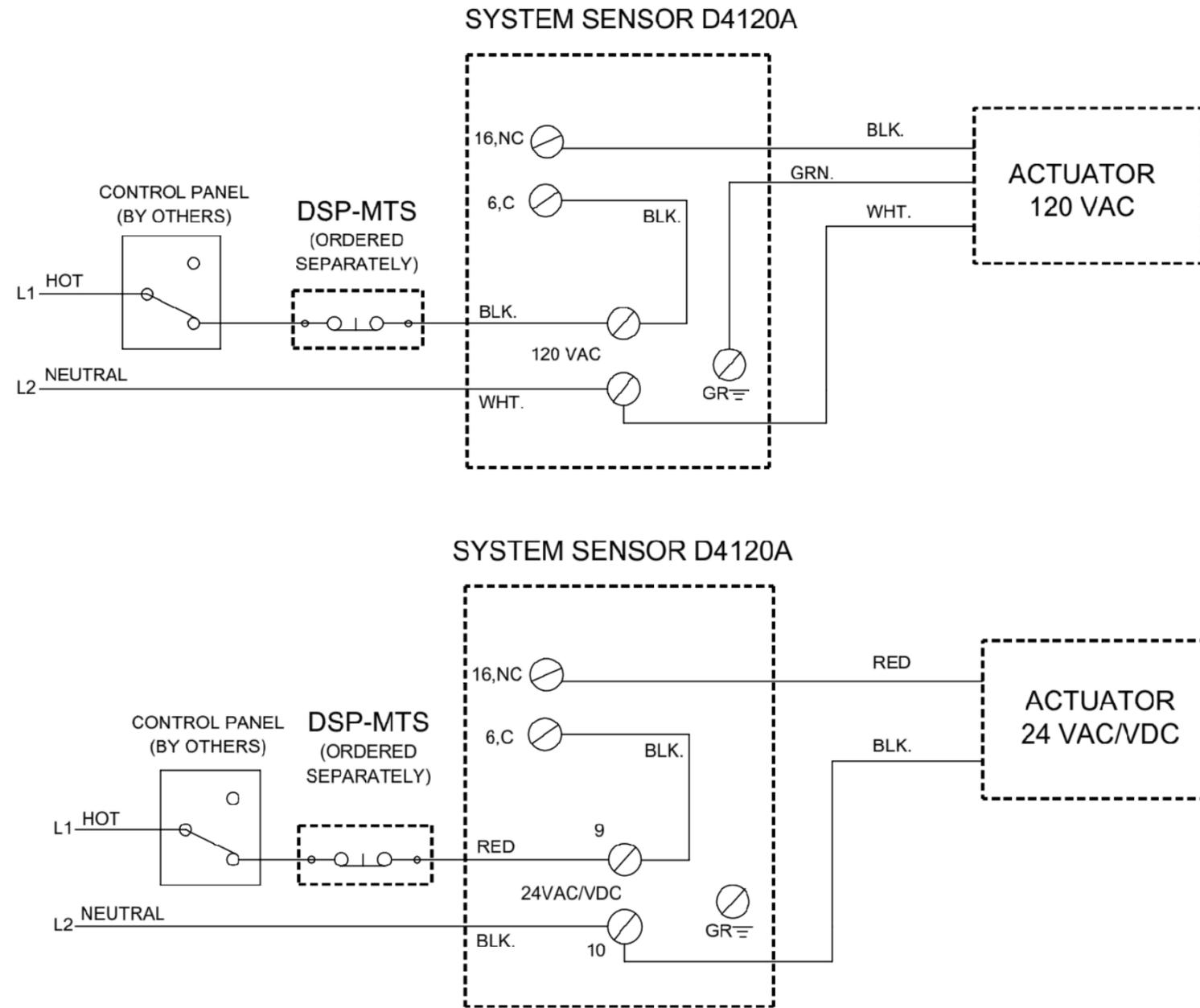
SUBMITTAL

DSD-LF WIRED TO ACTUATOR ONLY

MODELS: FSD-3V OR FSD-AF W/ FUSIBLE LINK, SSD-3V, SSD-AF

RATINGS

24 VAC 50/60 HZ
 24 VDC (20-29 VDC)
 120 VAC 50/60 HZ



CONSTRUCTION:

MODEL: SYSTEM SENSOR D4120A
 TYPE: PHOTOELECTRIC
 VELOCITY: 100 TO 4000 FPM
 WEIGHT: 2.5 LBS.
 OPERATING TEMPERATURE: -4°F TO 158°F (-20° TO 70°C)
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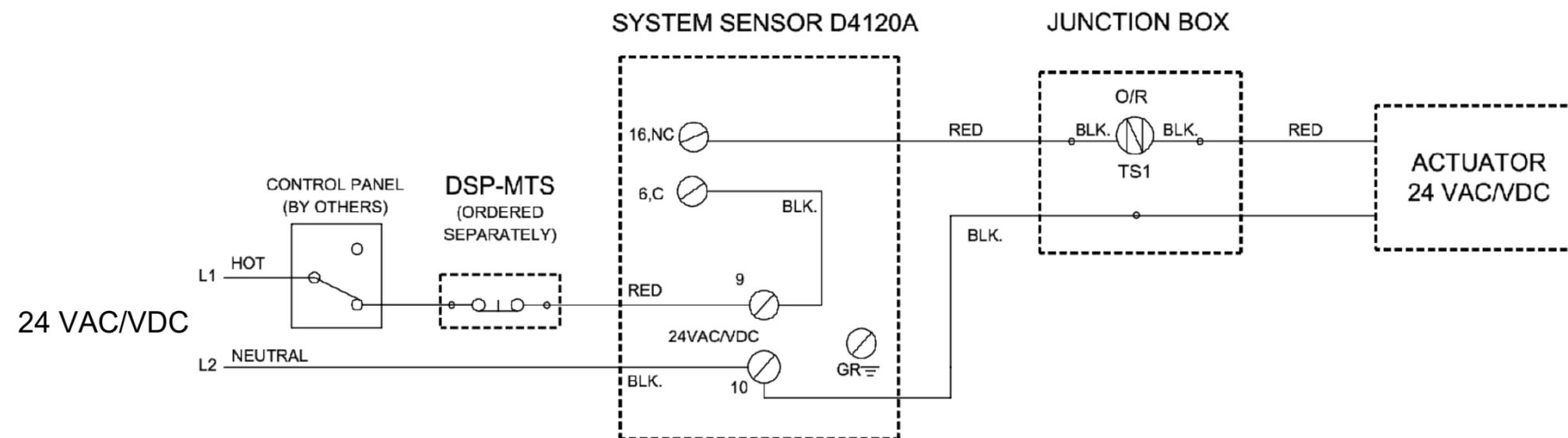
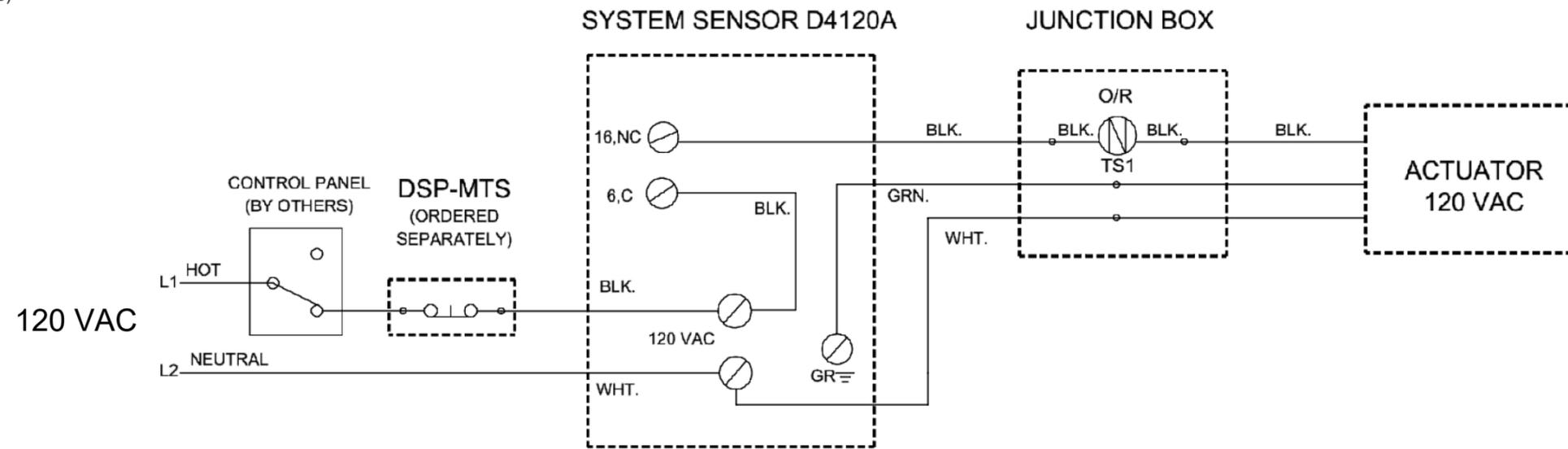
SUBMITTAL

DSD-LF WIRED TO O/R (DISC THERMOSTAT)

MODELS: FSD-3V, FSD-AF

RATINGS

24 VAC 50/60 HZ
 24 VDC (20-29 VDC)
 120 VAC 50/60 HZ



CONSTRUCTION:

MODEL: SYSTEM SENSOR D4120A
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 VELOCITY: 100 TO 4000 FPM
 WEIGHT: 2.5 LBS.
 OPERATING TEMPERATURE: -4°F TO 158°F (-20° TO 70°C)
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DSD-LF (D4120A): LOW FLOW SMOKE DETECTOR

SUBMITTAL NUMBER	278018	SHEET	4 OF 6	SIZE	B
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SUBMITTAL

DSD-LF WIRED TO STO/R (O/R+MICROSWITCH)

MODELS: FSD-3V, FSD-AF

RATINGS

24 VAC 50/60 HZ
 24 VDC (20-29 VDC)
 120 VAC 50/60 HZ



CONSTRUCTION:

MODEL: SYSTEM SENSOR D4120A
 TYPE: PHOTOELECTRIC
 VELOCITY: 100 TO 4000 FPM
 WEIGHT: 2.5 LBS.
 OPERATING TEMPERATURE: -4°F TO 158°F (-20° TO 70°C)
 OPERATING HUMIDITY: 0% to 95% RH
 OPERATING VOLTAGES: 24 VAC/VDC, 120 VAC
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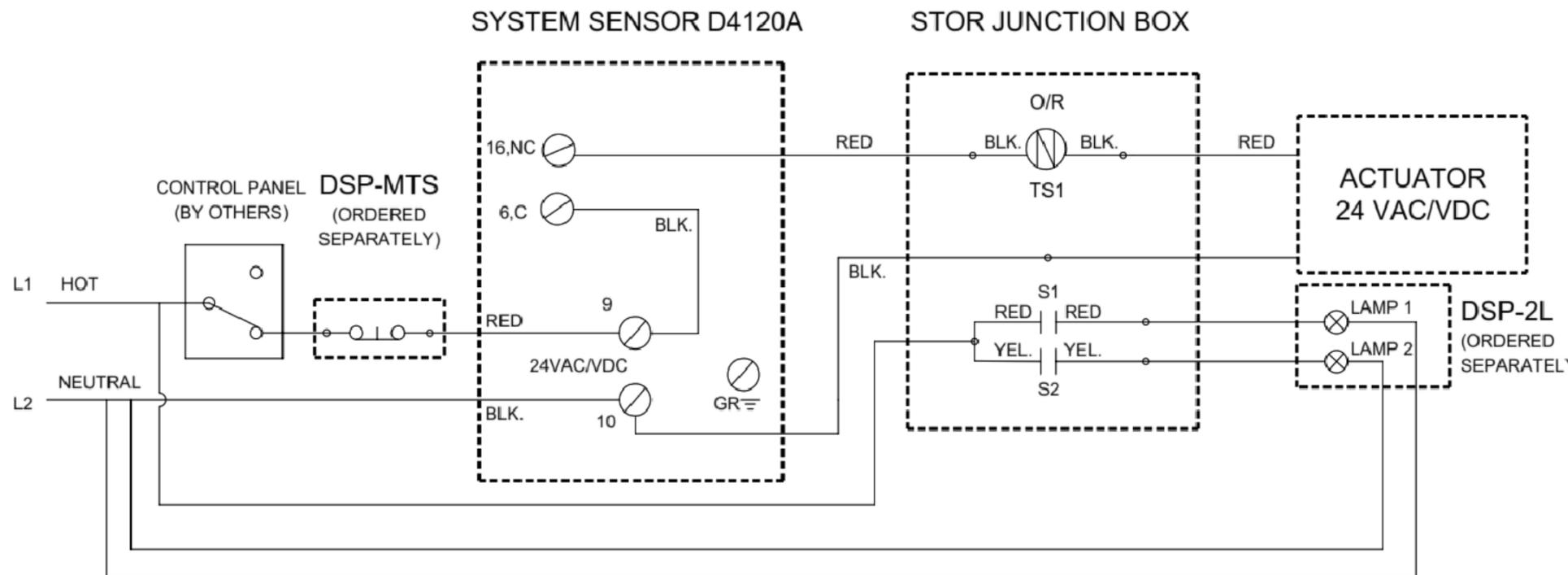
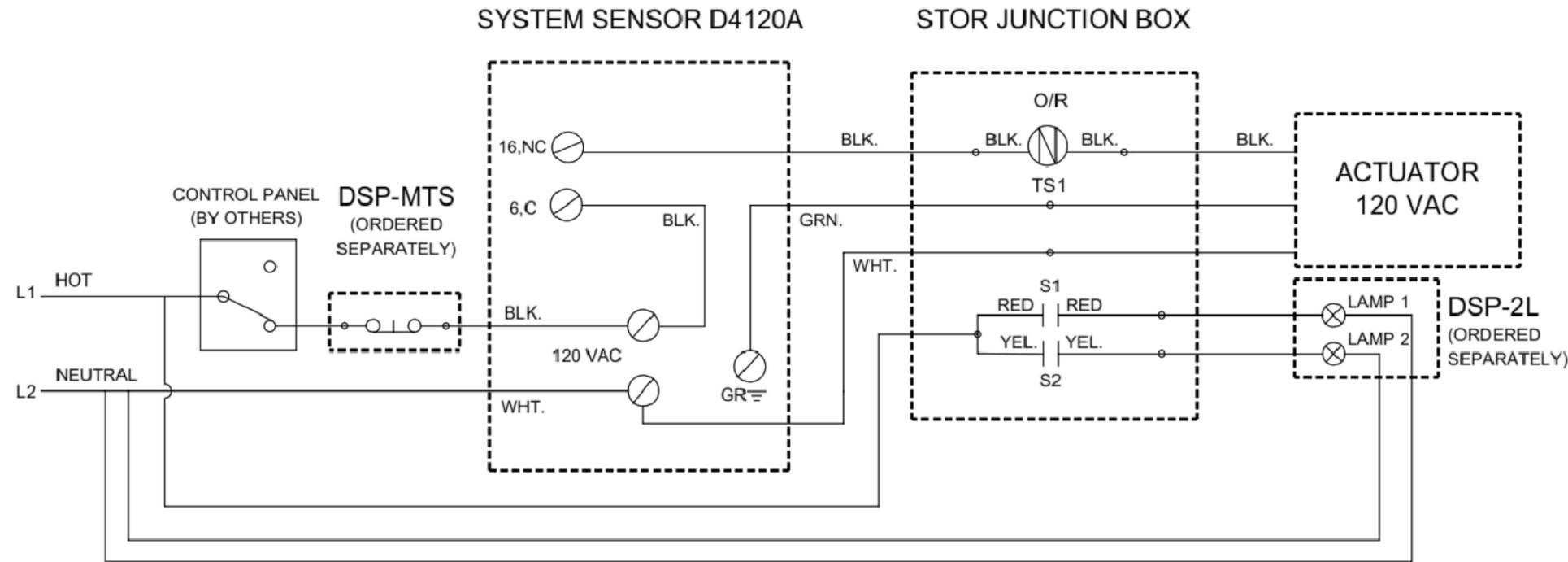
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SUBMITTAL

DSD-LF WIRED TO DTO/R (DUAL TEMP O/R+MICROSWITCH)

MODELS: FSD-3V, FSD-AF

RATINGS

24 VAC 50/60 HZ
 24 VDC (20-29 VDC)
 120 VAC 50/60 HZ



CONSTRUCTION:

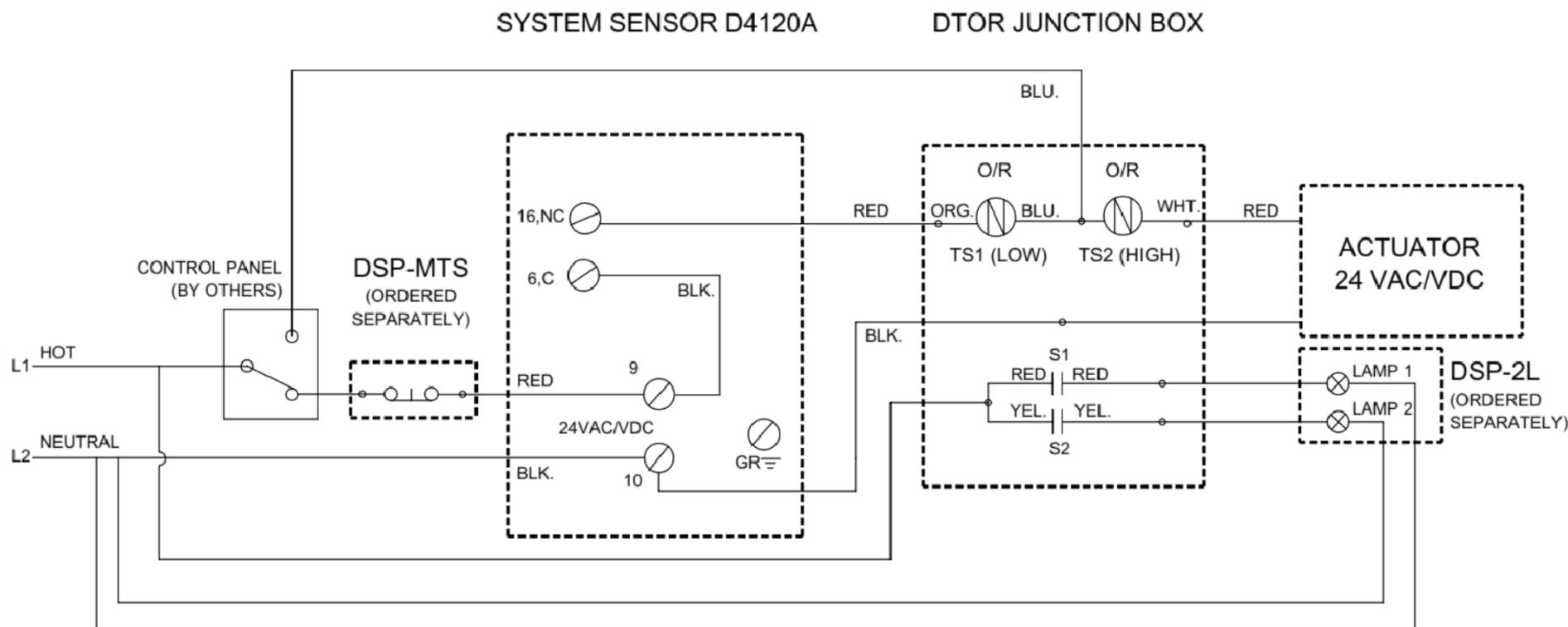
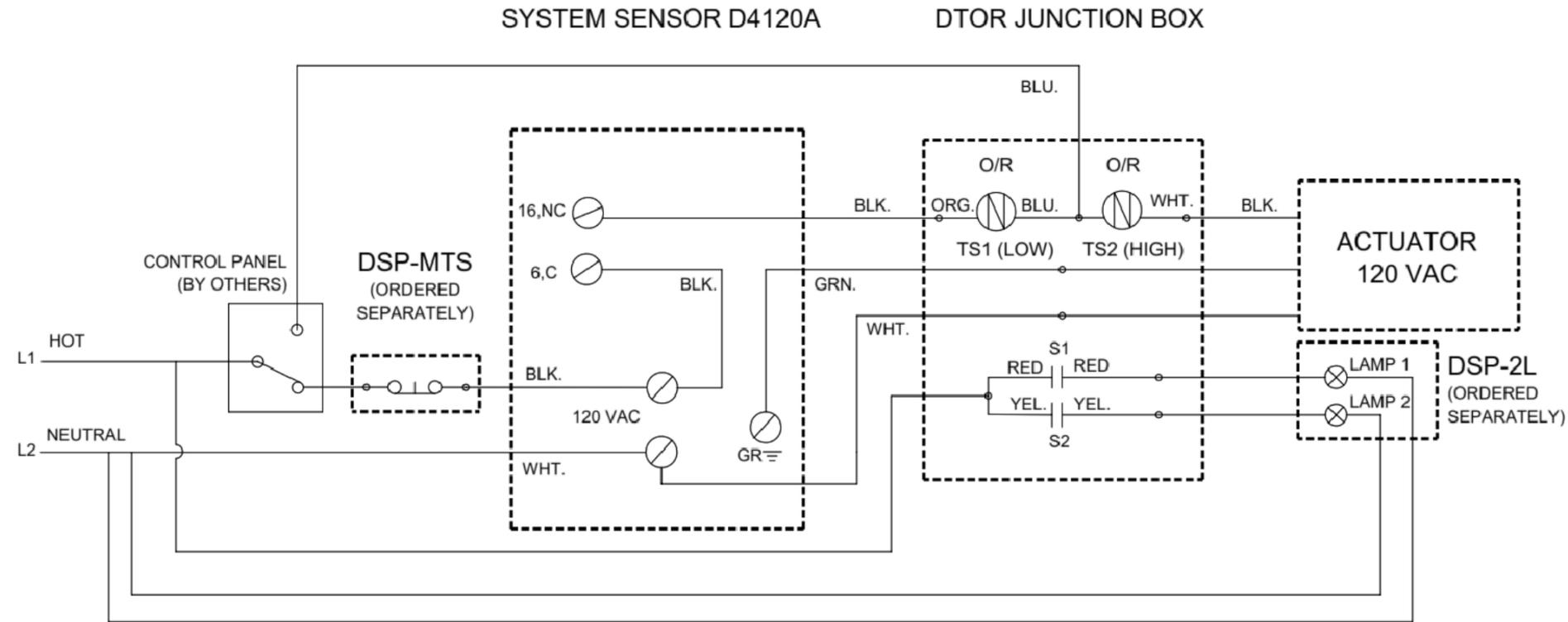
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