

SUBMITTAL

DSD-NF: DUCT SMOKE DETECTOR - NO FLOW (HS-100-P)

APPLICATION

THE HS-100 SPECIAL APPLICATION PHOTOELECTRIC DUCT SMOKE DETECTOR IS A SPECIALIZED DEVICE INTENDED FOR ENVIRONMENTS WHERE STANDARD EXTERNAL MOUNT DUCT DETECTORS ARE UNSUITABLE. ITS DESIGN CATERS TO SPECIFIC INSTALLATION SCENARIOS IN DAMPERS WHERE VERY LOW OR NO AIR VELOCITY IS PRESENT (≤ 100 FT./MIN).

THIS DETECTOR SERVES A CRUCIAL ROLE IN ENSURING THE SAFETY AND FUNCTIONALITY OF VENTILATION SYSTEMS IN VARIOUS COMMERCIAL AND INDUSTRIAL SETTINGS. BY DETECTING SMOKE WITHIN DUCTWORK, IT CAN PROMPT APPROPRIATE RESPONSES SUCH AS DAMPER CLOSURE, TO REDUCE THE SPREAD OF SMOKE OR ENSURE COMPLIANCE WITH SAFETY REGULATIONS. ITS PHOTOELECTRIC TECHNOLOGY ENABLES RELIABLE SMOKE DETECTION, MAKING IT SUITABLE FOR DIVERSE APPLICATIONS WHERE STANDARD DETECTORS MAY NOT SUFFICE. PLEASE REFER TO NFPA90A/NFPA72 AND LOCAL CODES TO DETERMINE WHERE SMOKE DETECTORS ARE REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTIONS FOR COMPATIBLE ACCESSORIES.

OPTIONS

- FACTORY INSTALLED
- SHIPPED LOOSE

SUPPLEMENTARY INFORMATION

- [APC HS-100-P DATASHEET](#)
- [APC HS-100-P INSTALLATION INSTRUCTIONS](#)



CONSTRUCTION:

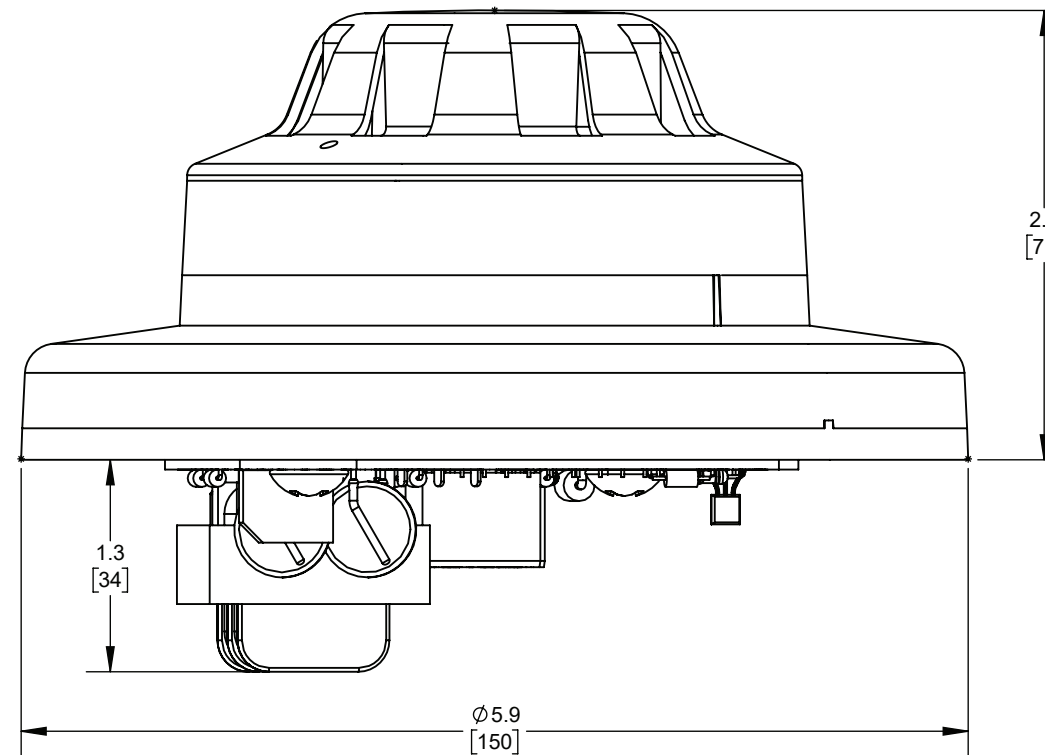
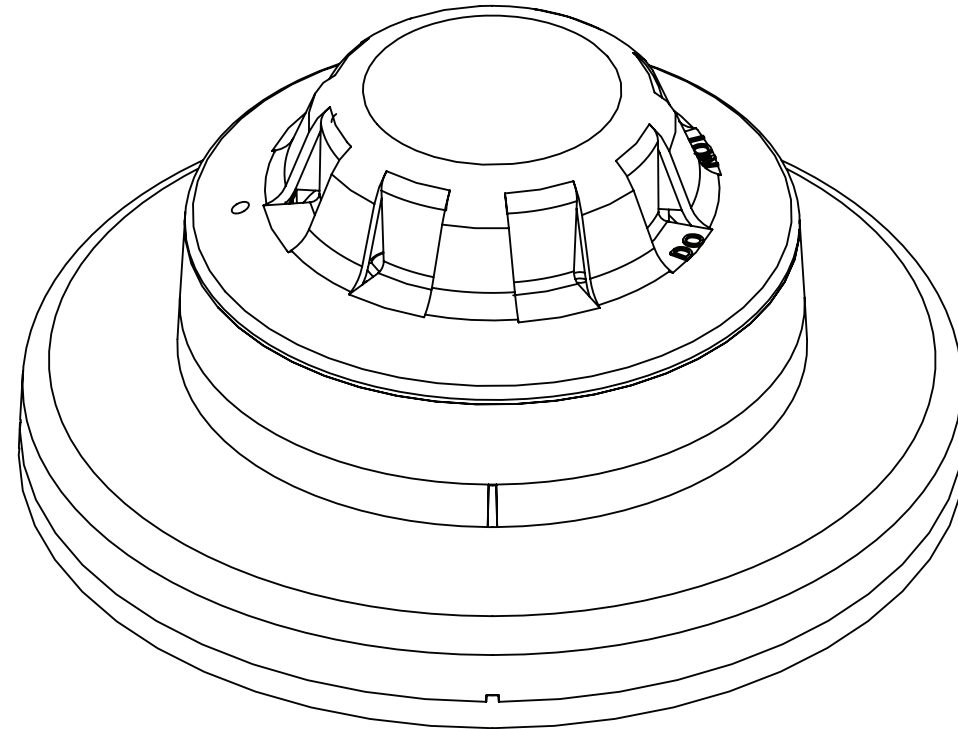
MODEL: AIR PRODUCTS AND CONTROLS, HS-100-P
TYPE: PHOTOELECTRIC
VELOCITY: 0 TO 3000 FPM
WEIGHT: 1 LBS.
OPERATING TEMPERATURE: 32°F TO 140°F (0° TO 60°C)
OPERATING HUMIDITY: 0% TO 85% RH
OPERATING VOLTAGES: 24 VAC/VDC, 120 VAC or 230 VAC
WIRING: SOLID OR STRANDED #12 TO #22 AWG
UL/ULC LISTING: UL 268A/ULC S529, FILE # S2829

ASSEMBLY AND INSTALLATION:

- ALL COMPONENTS SHOWN ARE FACTORY ASSEMBLED BY PRICE UNLESS OTHERWISE NOTED
- ALL INSTALLATION BY OTHERS AND METHODS SHOWN ARE NOTIONAL
- (ASSY BY OTHERS): PROVIDED BY PRICE, FIELD ASSEMBLED BY OTHERS
- (BY OTHERS): PROVIDED AND FIELD ASSEMBLED BY OTHERS
- PLEASE REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS

NOTES:

- DIMENSIONS SHOWN IN PARENTHESES ARE FOR REFERENCE ONLY (X.XX)
- METRIC DIMENSIONS SHOWN IN BRACKETS [X.XX]
- SEE COMPLETE UL/ULC MARKING ON PRODUCT
- JUNCTION BOX, CONDUITS, AND ALL OTHER MOUNTING HARDWARE ARE BY OTHERS IF NOT ORDERED FACTORY INSTALLED
- DAMPER ASSEMBLY IS SHOWN FOR REFERENCE AND MAY VARY IN CONSTRUCTION
- NOT ALL SCREW TERMINALS SHOWN
- ELECTRICAL CONNECTIONS MADE IN THE FIELD NEED TO BE MADE BY QUALIFIED ELECTRICIANS COMPLYING TO LOCAL CODES AND REGULATIONS
- THE SMOKE DETECTOR AND DAMPER HAVE BEEN INDIVIDUALLY EVALUATED BY THEIR APPLICABLE UL/ULC STANDARDS AND UNDERWRITER'S LABORATORIES, INC. DOES NOT HAVE A SEPARATE PRODUCT CATEGORY FOR FACTORY MOUNTED SMOKE DETECTORS. CONSULT THE AUTHORITY HAVING JURISDICTION BEFORE THE INSTALLATION OF THE DAMPER OR SMOKE DETECTOR ON SITE
- DAMPERS UNDER 18" WIDTH NOT RECOMMENDED WITH FUSIBLE LINK DUE TO LIMITED ACCESS FOR MAINTENANCE
- DAMPER ACCESSORIES MOUNTED IN THE AIRSTREAM WILL IMPACT FREE AREA AND PERFORMANCE



B	2024-07-15	MAH	MLH
A	2024-02-12	MAH	MLH
REV	DATE	DRAWN BY	CHECKED BY

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED

TOLERANCES UNLESS OTHERWISE SPECIFIED			
LINEAR	X.X ± .06	X.XX ± .03	X.XXX ± .01
ANGULAR	X ± 1	X.X ± .5	X.XX ± .25
			DEGREES

PROJECT

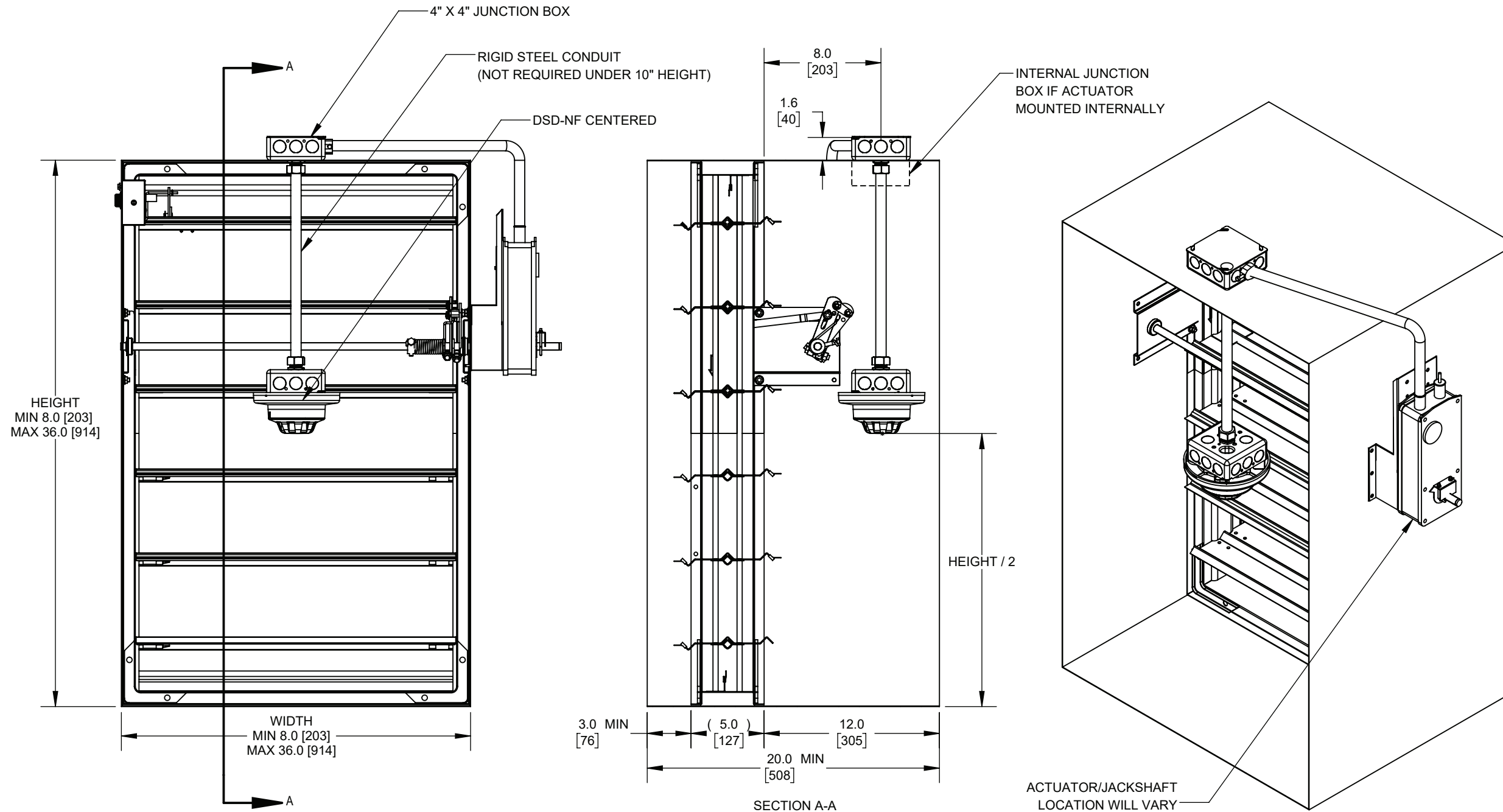
DRAWING TITLE
DSD-NF (HS-100-P) NO FLOW SMOKE DETECTOR

SUBMITTAL NUMBER	276621	SHEET	1 OF 6	SIZE	B
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SUBMITTAL

FACTORY MOUNTING DETAILS



CONSTRUCTION:

MODEL: AIR PRODUCTS AND CONTROLS, HS-100-P
TYPE: PHOTOELECTRIC
VELOCITY: 0 TO 3000 FPM
WEIGHT: 1 LBS.
OPERATING TEMPERATURE: 32°F TO 140°F (0° TO 60°C)
OPERATING HUMIDITY: 0% TO 85% RH
OPERATING VOLTAGES: 24 VAC/VDC, 120 VAC or 230 VAC
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NOTES:

- DIMENSIONS SHOWN IN PARENTHESES ARE FOR REFERENCE ONLY (X.XX)
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- JUNCTION BOX, CONDUITS, AND ALL OTHER MOUNTING HARDWARE ARE BY OTHERS IF NOT ORDERED FACTORY INSTALLED
- DAMPER ASSEMBLY IS SHOWN FOR REFERENCE AND MAY VARY IN CONSTRUCTION
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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR X.X ± .06 X.XX ± .03 X.XXX ± .01 INCHES
 ANGULAR X ± 1 X.X ± .5 X.XX ± .25 DEGREES

PROJECT

DRAWING TITLE

DSD-NF (HS-100-P) NO FLOW SMOKE DETECTOR

SUBMITTAL NUMBER	276621	SHEET	SIZE
		2 OF 6	B

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SUBMITTAL

DSD-NF WIRED TO ACTUATOR ONLY

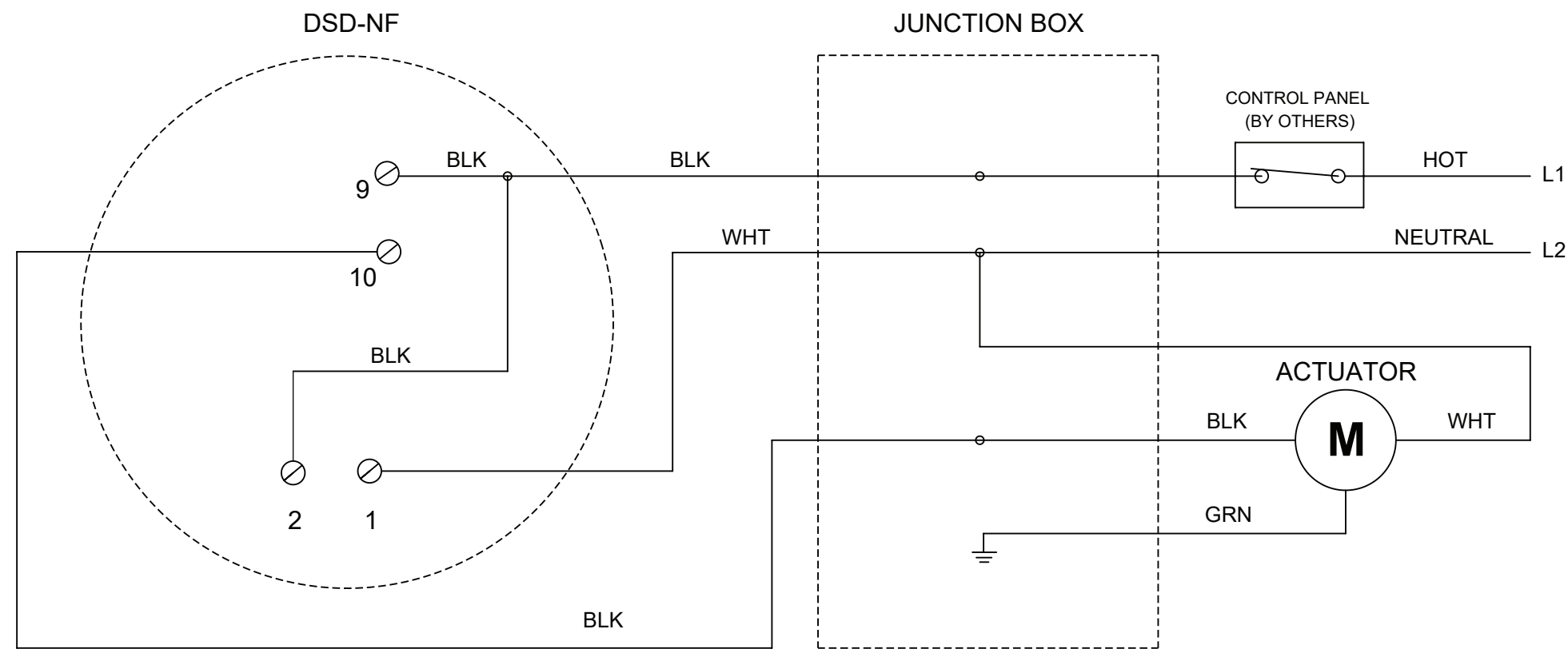
MODELS: FSD-3V OR FSD-AF W/ FUSIBLE LINK, SSD-3V, SSD-AF

NOTE:

1. USE TERMINALS 1 & 2 FOR 120VAC POWER SUPPLY (SHOWN)
2. USE TERMINALS 4 & 5 FOR 24VAC OR 24VDC POWER SUPPLY
3. USE TERMINALS 1 & 3 FOR 230VAC POWER SUPPLY

RATINGS

24 VAC 50/60 HZ, 0.2A MAX
 24 VDC 50/60 HZ, 0.1A MAX
 120 VAC 50/60 HZ, 0.1A MAX
 230 VAC 50/60 HZ, 0.1A MAX



CONSTRUCTION:

MODEL: AIR PRODUCTS AND CONTROLS, HS-100-P
TYPE: PHOTOELECTRIC
VELOCITY: 0 TO 3000 FPM
WEIGHT: 1 LBS.
OPERATING TEMPERATURE: 32°F TO 140°F (0° TO 60°C)
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			DEGREES

PROJECT

DRAWING TITLE

DSD-NF (HS-100-P) NO FLOW SMOKE DETECTOR

SUBMITTAL NUMBER	276621	SHEET	3 OF 6	SIZE	B
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SUBMITTAL

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

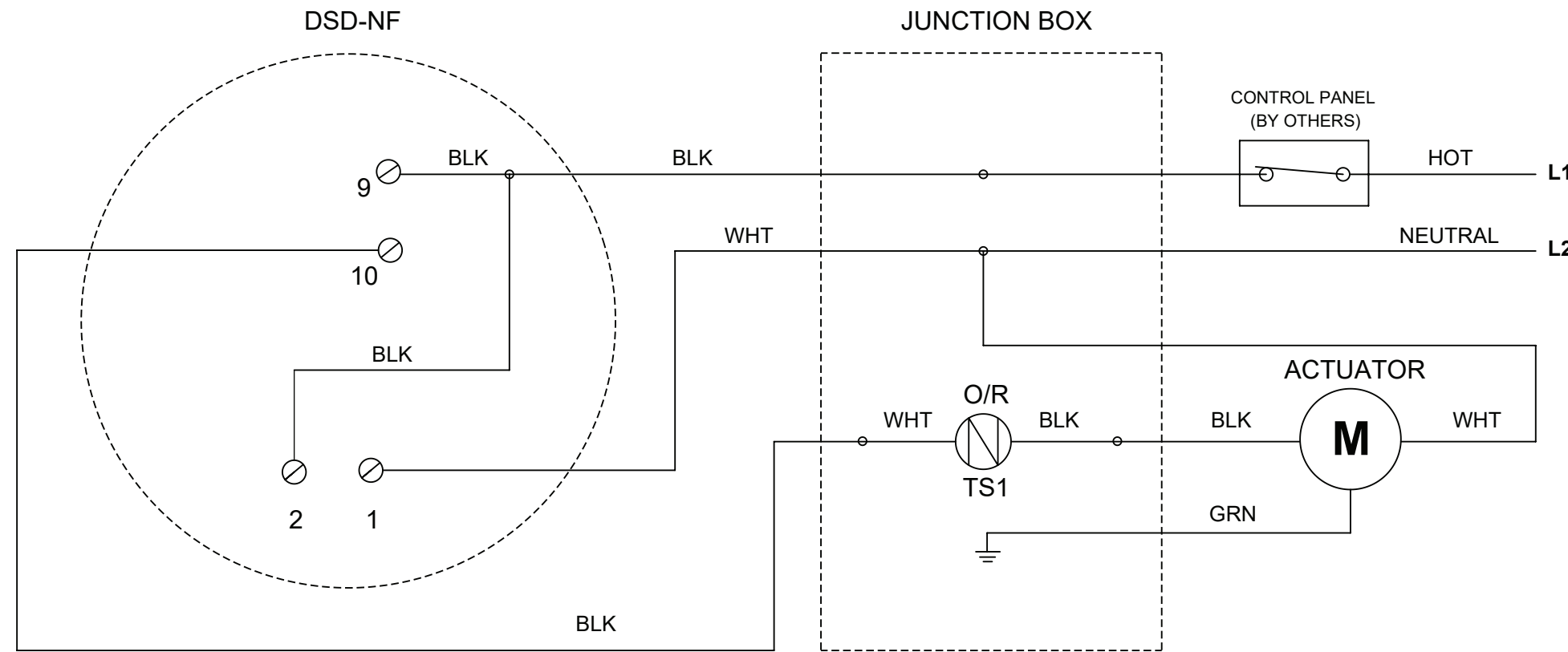
MODELS: FSD-3V, FSD-AF

NOTE:

1. USE TERMINALS 1 & 2 FOR 120VAC POWER SUPPLY (SHOWN)
2. USE TERMINALS 4 & 5 FOR 24VAC OR 24VDC POWER SUPPLY
3. USE TERMINALS 1 & 3 FOR 230VAC POWER SUPPLY

RATINGS

- 24 VAC 50/60 HZ, 0.2A MAX
- 24 VDC 50/60 HZ, 0.1A MAX
- 120 VAC 50/60 HZ, 0.1A MAX
- 230 VAC 50/60 HZ, 0.1A MAX



CONSTRUCTION:

MODEL: AIR PRODUCTS AND CONTROLS, HS-100-P
 TYPE: PHOTOELECTRIC
 VELOCITY: 0 TO 3000 FPM
 WEIGHT: 1 LBS.
 OPERATING TEMPERATURE: 32°F TO 140°F (0° TO 60°C)
 OPERATING HUMIDITY: 0% TO 85% RH
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			DEGREES

PROJECT

DRAWING TITLE

DSD-NF (HS-100-P) NO FLOW SMOKE DETECTOR

SUBMITTAL NUMBER	276621	SHEET	4 OF 6	SIZE	B
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SUBMITTAL

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

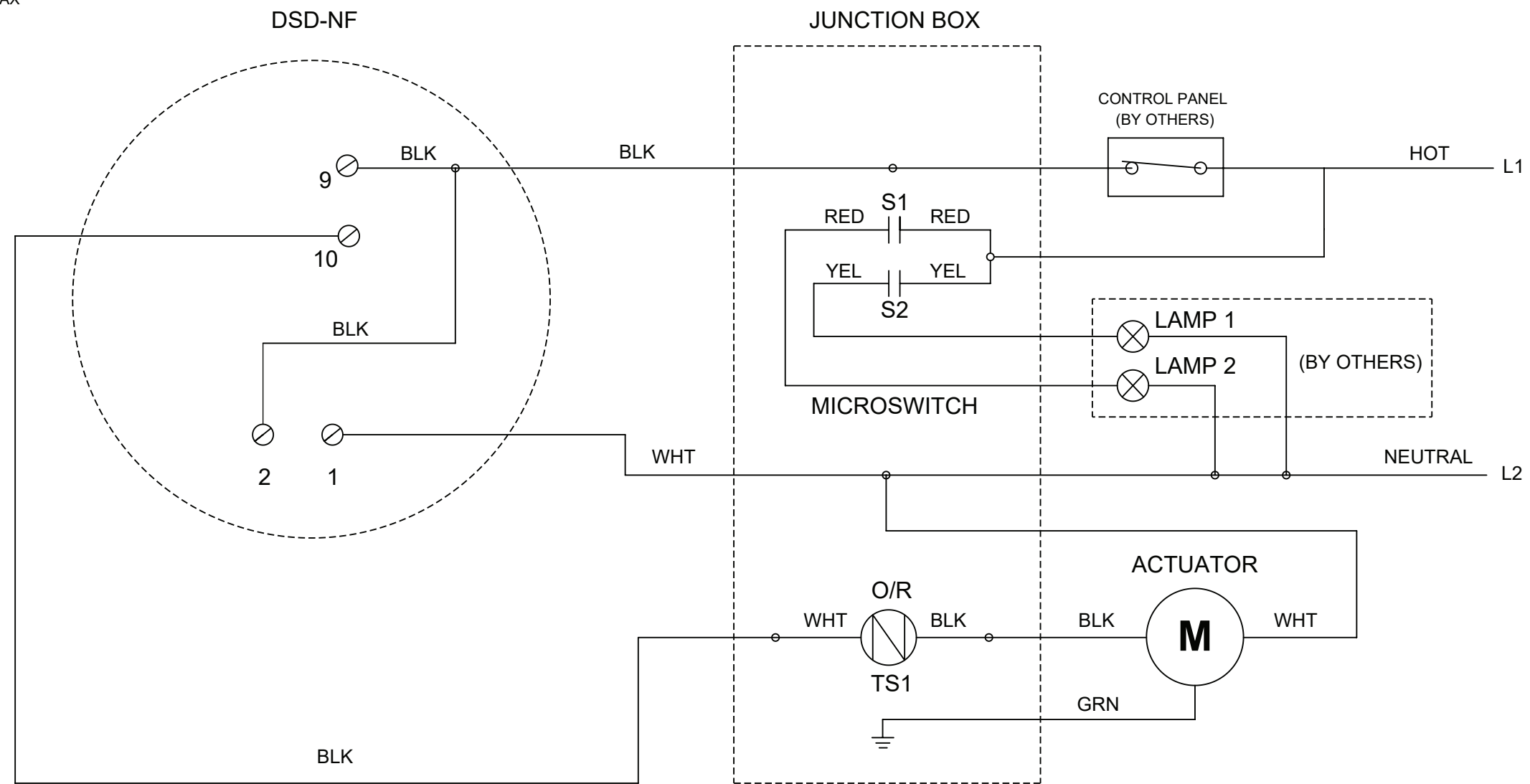
MODELS: FSD-3V, FSD-AF

NOTE:

1. USE TERMINALS 1 & 2 FOR 120VAC POWER SUPPLY (SHOWN)
2. USE TERMINALS 4 & 5 FOR 24VAC OR 24VDC POWER SUPPLY
3. USE TERMINALS 1 & 3 FOR 230VAC POWER SUPPLY

RATINGS

- 24 VAC 50/60 HZ, 0.2A MAX
- 24 VDC 50/60 HZ, 0.1A MAX
- 120 VAC 50/60 HZ, 0.1A MAX
- 230 VAC 50/60 HZ, 0.1A MAX



CONSTRUCTION:

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 TYPE: PHOTOELECTRIC
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 WEIGHT: 1 LBS.
 OPERATING TEMPERATURE: 32°F TO 140°F (0° TO 60°C)
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REV	DATE	DRAWN BY	CHECKED BY

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TOLERANCES UNLESS OTHERWISE SPECIFIED			
LINEAR	X.X ± .06	X.XX ± .03	X.XXX ± .01 INCHES
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PROJECT

DRAWING TITLE

DSD-NF (HS-100-P) NO FLOW SMOKE DETECTOR

SUBMITTAL NUMBER	276621	SHEET	5 OF 6	SIZE	B
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SUBMITTAL

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

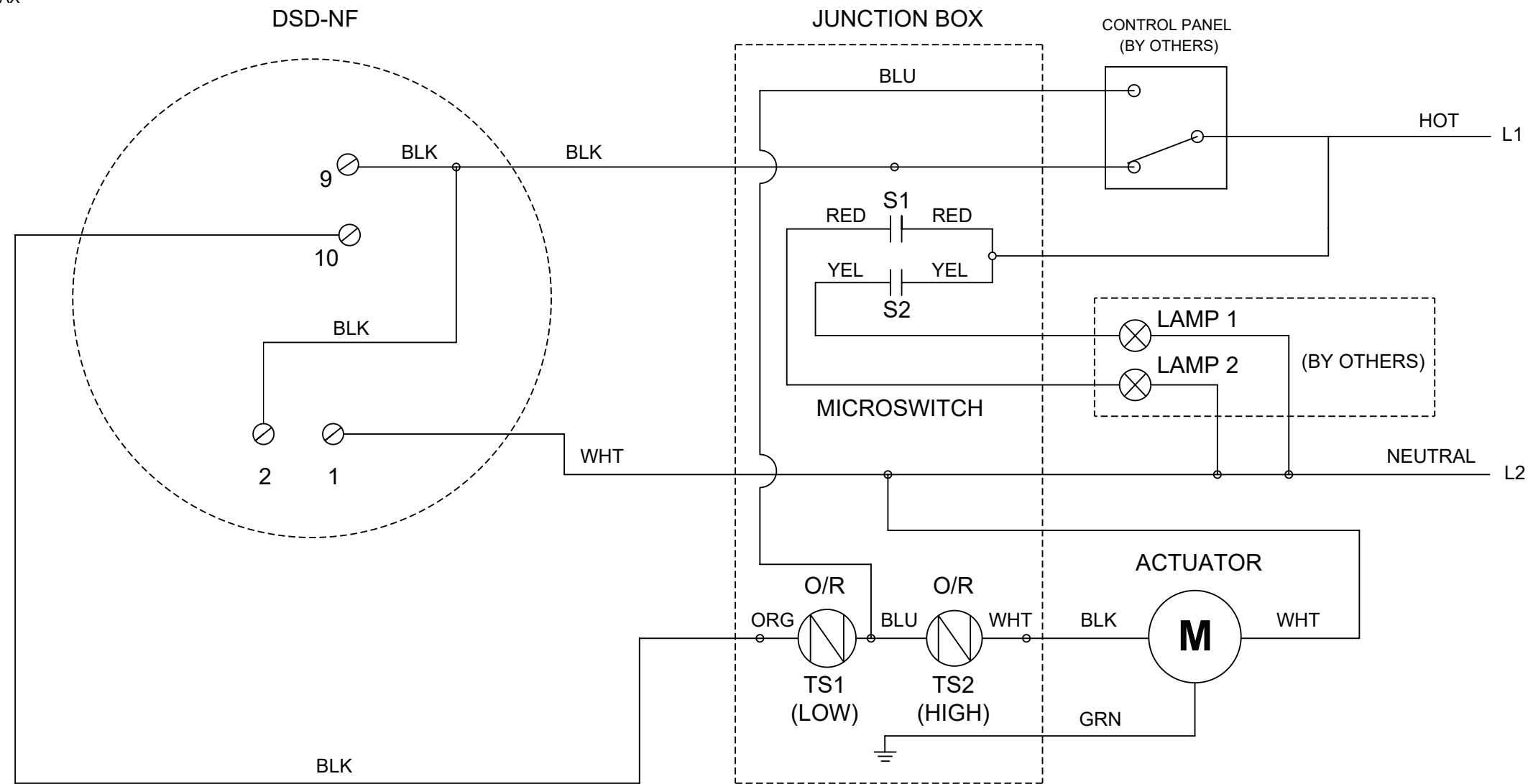
MODELS: FSD-3V, FSD-AF

NOTE:

1. USE TERMINALS 1 & 2 FOR 120VAC POWER SUPPLY (SHOWN)
2. USE TERMINALS 4 & 5 FOR 24VAC OR 24VDC POWER SUPPLY
3. USE TERMINALS 1 & 3 FOR 230VAC POWER SUPPLY

RATINGS

- 24 VAC 50/60 HZ, 0.2A MAX
- 24 VDC 50/60 HZ, 0.1A MAX
- 120 VAC 50/60 HZ, 0.1A MAX
- 230 VAC 50/60 HZ, 0.1A MAX



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