

HONEYWELL

See full Datasheet below...

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PART NUMBER

SEE CHART

VPX

ENCLOSURE MATERIAL

CODE	DESCRIPTION
1	ALUMINUM

INDICATOR ANGLE

CODE	ANGLE
A	45°
B	90°

COUNTRY OF ORIGIN / CERTIFICATIONS

CODE	DESCRIPTION
A	ASSEMBLED IN CHINA (STANDARD), IECEX, ATEX, NEPSI APPROVALS
C	ASSEMBLED IN CHINA (PREMIUM), IECEX, ATEX, NEPSI, cULus, KOSHA APPROVALS. SIL3 APPROVED
E	ASSEMBLED IN USA (PREMIUM), IECEX, ATEX, NEPSI, cULus, KOSHA APPROVALS. SIL3 APPROVED

SHAFT END

CODE	DESCRIPTION
1	NAMUR
2	1/4" FLATS
3	Ø7.25 KNURL (FOR EXTERNAL LEVER)

SHAFT ROTATION

CODE	DESCRIPTION
A	360° CONTINUOUS
B	±90° WITH SPRING RETURN TO 0°

INDICATOR COLOR

CODE	COLOR
GR	GREEN (OPEN) RED (CLOSED)
BY	BLACK (OPEN) / YELLOW (CLOSED)
YB	YELLOW (OPEN) / BLACK (CLOSED)
RY	RED (OPEN) / YELLOW (CLOSED)
GY	GREEN (OPEN) / YELLOW (CLOSED)
RG	RED (OPEN) / GREEN (CLOSED)
YR	YELLOW (OPEN) / RED (CLOSED)
YG	YELLOW (OPEN) / GREEN (CLOSED)

CONDUIT ENTRY

CODE	SIZE / LOCATION
2A	(2) 1/2-14 NPT (ENTRIES A AND D)
2B	(2) 3/4-14 NPT (ENTRIES A AND D)
2C	(2) M20 X 1.5 (ENTRIES A AND D)
2D	(2) M25 X 1.5 (ENTRIES A AND D)
3B	(3) 3/4-14 NPT(ENTRIES A, B AND D)
4C	(4) M20 X 1.5
4D	(4) M25 X 1.5
4F	(2) 1/2-14 NPT(ENTRIES B AND C) AND (2) 3/4-14 NPT(ENTRIES A AND D)

UP TO TWO LETTERS OR NUMBERS TO INDICATE A SPECIAL FEATURE SPECIAL FEATURES TO BE EVALUATED BY HONEYWELL AND CANNOT IMPACT THE HAZARDOUS LOCATION APPROVALS EVALUATION OR SAFETY OF THE DEVICE.

OF CONDUIT PLUGS

LEAVE BLANK FOR NO PLUGS
1
2
3

* INDICATE HOW MANY PLUGS SHOULD BE INCLUDED. ANY UNUSED CONDUIT ENTRIES MUST BE SEALED WITH A BLANKING ELEMENT CERTIFIED TO THE HARZARDOUS LOCATION ENVIRONMENT (OR BETTER). PLUGS CAN ALSO BE PURCHASED SEPARATELY (SEE SHEET 3)

SWITCH OPTIONS / TEMPERATURE RATING

CODE	DESCRIPTION
2A	2X SNAP ACTION SPDT SWITCH $\frac{10}{}$
4A	4X SNAP ACTION SPDT SWITCH $\frac{10}{}$
2B	2X SNAP ACTION SPDT SWITCH WITH GOLD PLATED CONTACTS $\frac{10}{}$
4B	4X SNAP ACTION SPDT SWITCH WITH GOLD PLATED CONTACTS $\frac{10}{}$
2C	2X INTRINSIC SAFE INDUCTIVE PROXIMITY SWITCH (NAMUR) $\frac{3}{}$ $\frac{9}{}$

APPROVALS

APPROVALS COVERAGE	THE FOLLOWING APPROVALS ARE PENDING: cULUS, CE, IECEX, ATEX, KOSHA, NEPSI
UL EXPLOSION PROOF DESIGNATIONS	CLASS I, DIVISION 1, GROUPS B, C, D (GAS RATING) CLASS II, DIVISION 1, GROUPS E, F, G (DUST RATING)
ATEX/IECEX/KOSHA/NEPSI EXPLOSION PROOF DESIGNATIONS	II 2 G, II 2 D (ATEX RATING) Ex db IIC T6 Gb (GAS RATING) Ex tb IIIC T85°C Db (DUST RATING) $\frac{1}{}$
ATEX/IECEX/KOSHA/NEPSI INTRINSICALLY SAFE DESIGNATIONS	II 1 G, II 1 D (ATEX RATING) Ex ia IIC T4 Ga (GAS RATING) Ex ia IIIC T135°C Da (DUST RATING) $\frac{2}{}$
SAFETY INTEGRATION LEVEL (SIL)	SIL 3 PER IEC 61508-2 MECHANICAL ENDURANCE MCTF: 500,000 CYCLES ELECTRICAL ENDURANCE MCTF (PROXIMITY SWITCHES): 50,000 CYCLES ELECTRICAL ENDURANCE MCTF (EM SWITCHES RATED 16A 250 VAC): 25,000 CYCLES ELECTRICAL ENDURANCE MCTF (EM SWITCHES RATED 0.5A 250 VDC): 10,000 CYCLES $\frac{11}{}$

ENVIRONMENTAL DATA

OPERATING TEMPERATURE RANGE	SWITCH CODES 2A AND 2B: -40°C TO 60°C (ALL APPROVALS) SWITCH CODES 4A AND 4B: -40°C TO 50°C (ALL APPROVALS) SWITCH CODE C: -40°C TO 60°C (UL), -40°C TO 80°C (ATEX, IECEX, NEPSI, KOSHA)
ENCLOSURE SEALING INTEGRITY	4, 4X, 6 & 13 PER UL 50E IP66 ACCORDING TO IEC 60079-0 (CONFIRMED WITH HAZARDOUS LOCATION APPROVALS AFTER THERMAL CONDITIONING) IP67 ACCORDING TO IEC 60529 (SELF CERTIFIED BY HONEYWELL, NO THERMAL CONDITIONING)
VIBRATION	PER IEC 60068-2-6: 1.5 mm PEAK-TO-PEAK (10-59 Hz); 5G MAX (60-500 Hz)
SHOCK	PER IEC 20068-2-27: 50G MAXIMUM

PHYSICAL SPECIFICATIONS

WEIGHT	~2.4 Kg (5.2 LBS)
ENCLOSURE MATERIAL	ALUMINUM WITH PROTECTIVE PAINT FINISH
INDICATOR COVER	POLYCARBONATE
SHAFT	STAINLESS STEEL
EXTERNAL FASTENERS	STAINLESS STEEL
SEALS	NITRILE BUTADIENE RUBBER

CHARACTERISTICS (NON SPRING RETURN VERSION)

OPERATING TORQUE	1.0 N-m (8.9 IN-LBS) MAX
OPERATING POINT	ADJUSTABLE TO ANY ANGLE IN 4° INCREMENTS
FACTORY SET POINTS FOR 4 SWITCH OPTION	
SWITCHES 1 & 2	25±25° WHEN THE SHAFT IS ROTATED CLOCKWISE
SWTICHES 3 & 4 (45° INDICATOR)	45±25° WHEN THE SHAFT IS ROTATED COUNTERCLOCKWISE
SWTICHES 3 & 4 (90° INDICATOR)	90±25° WHEN THE SHAFT IS ROTATED COUNTERCLOCKWISE
FACTORY SET POINTS FOR 2 SWITCH OPTION	
SWITCH 1	25±25° WHEN THE SHAFT IS ROTATED CLOCKWISE
SWTICH 2 (45° INDICATOR)	45±25° WHEN THE SHAFT IS ROTATED COUNTERCLOCKWISE
SWTICH 2 (90° INDICATOR)	90±25° WHEN THE SHAFT IS ROTATED COUNTERCLOCKWISE

CHARACTERISTICS (SPRING RETURN VERSION)

OPERATING TORQUE	1.7 N-m (15.1 IN-LBS) MAX
SWITCH 1 PRE-TRAVEL (45° INDICATOR)	10±10° WHEN SHAFT IS ROTATED CLOCKWISE
SWITCH 1 PRE-TRAVEL (90° INDICATOR)	10±10° WHEN SHAFT IS ROTATED CLOCKWISE
SWITCH 2 PRE-TRAVEL (45° INDICATOR)	40±10° WHEN SHAFT IS ROTATED COUNTERCLOCKWISE
SWITCH 2 PRE-TRAVEL (90° INDICATOR)	80±10° WHEN SHAFT IS ROTATED COUNTERCLOCKWISE
MAX TRAVEL	95° MAX IN EITHER DIRECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM

DECIMAL TOL	NO PLACE --- ±0.5 1 PLACE --- ±0.3 2 PLACE --- ±0.15 3 PLACE --- ±0.05
ANGULAR TOL	±2° CHAMFER - ±5°

THIRD ANGLE PROJECTION

MATERIAL

FINISH

APPLICABLE DOCUMENTS: ASME Y14.100-2004
ASME Y14.5-2009

COMPUTER GENERATED DRAWING: PRO/ENGINEER

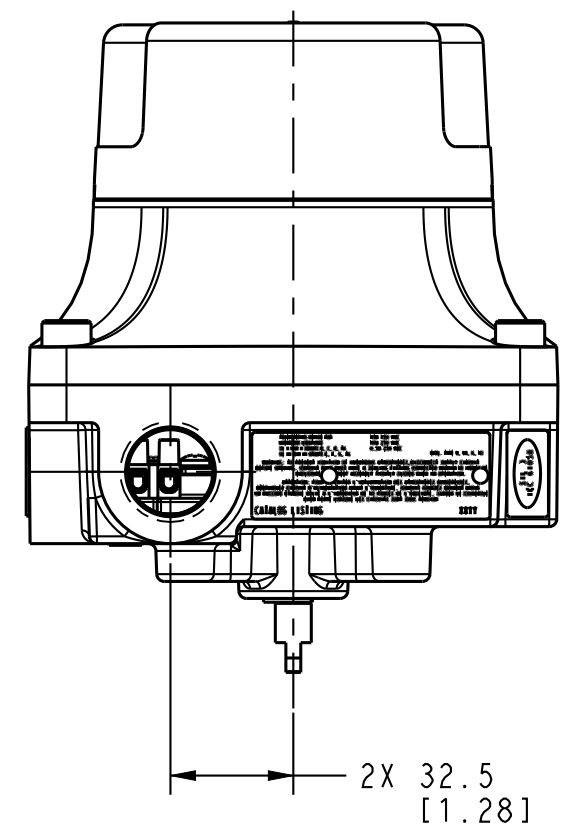
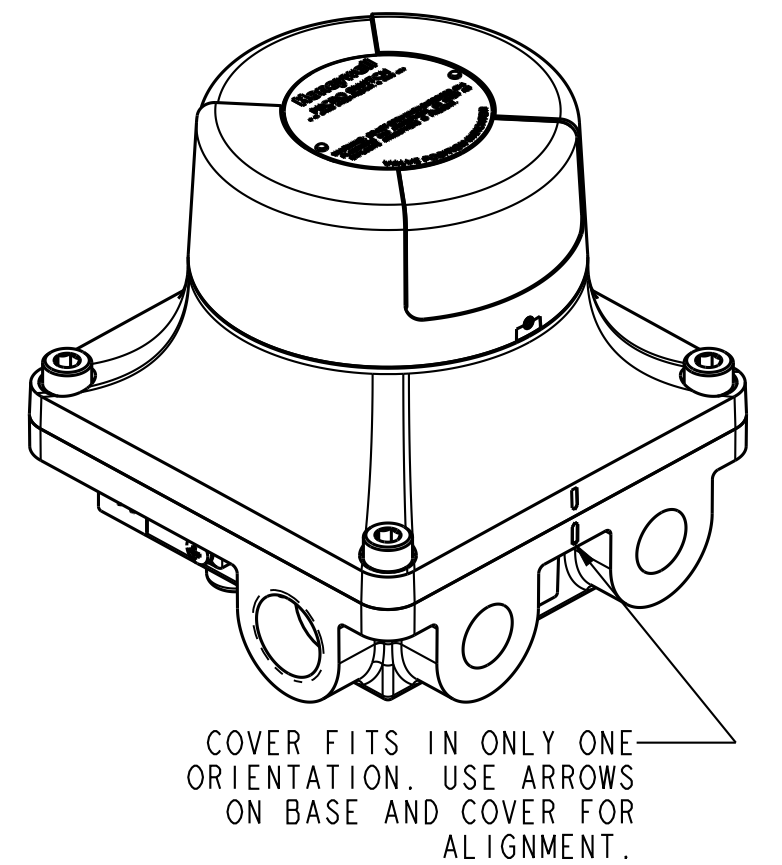
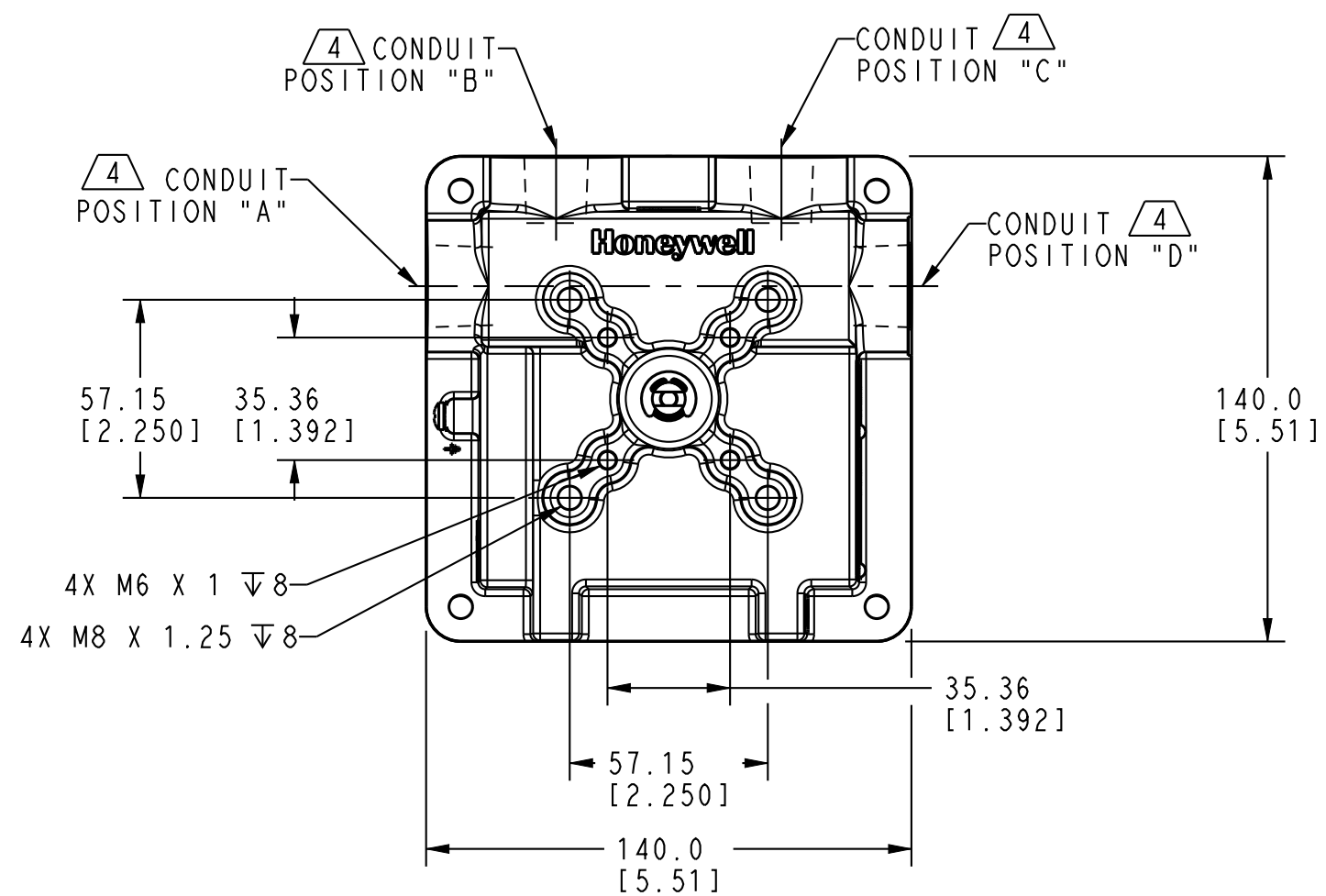
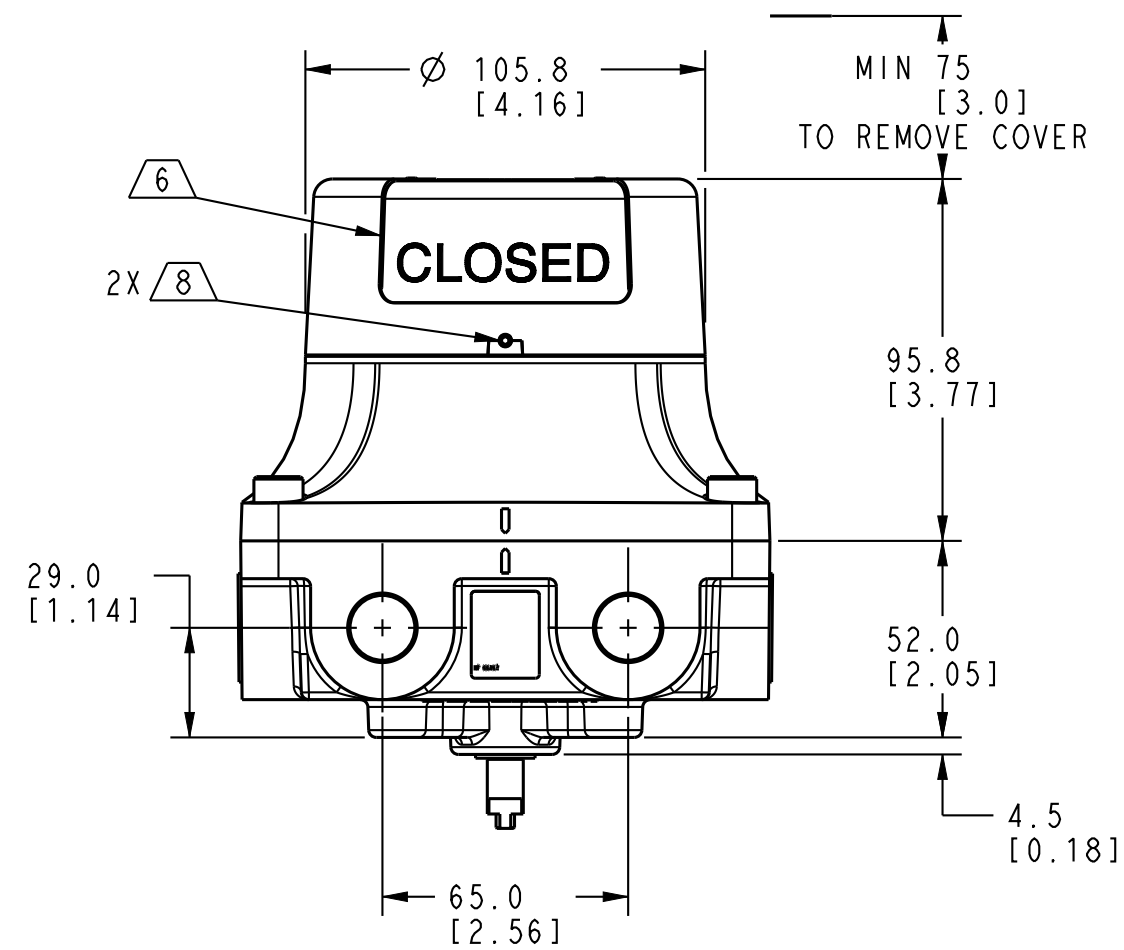
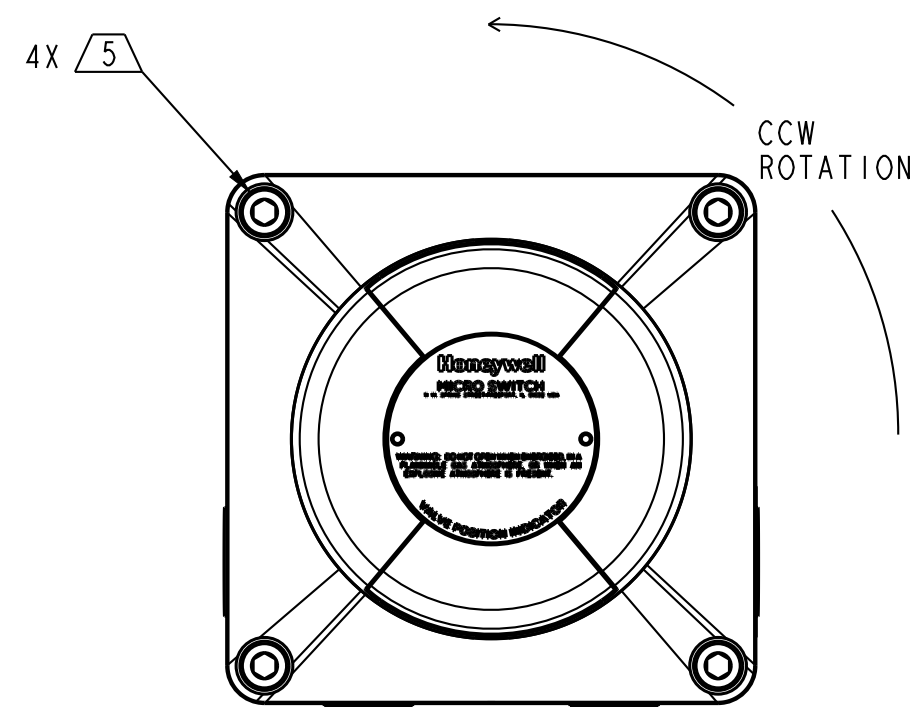
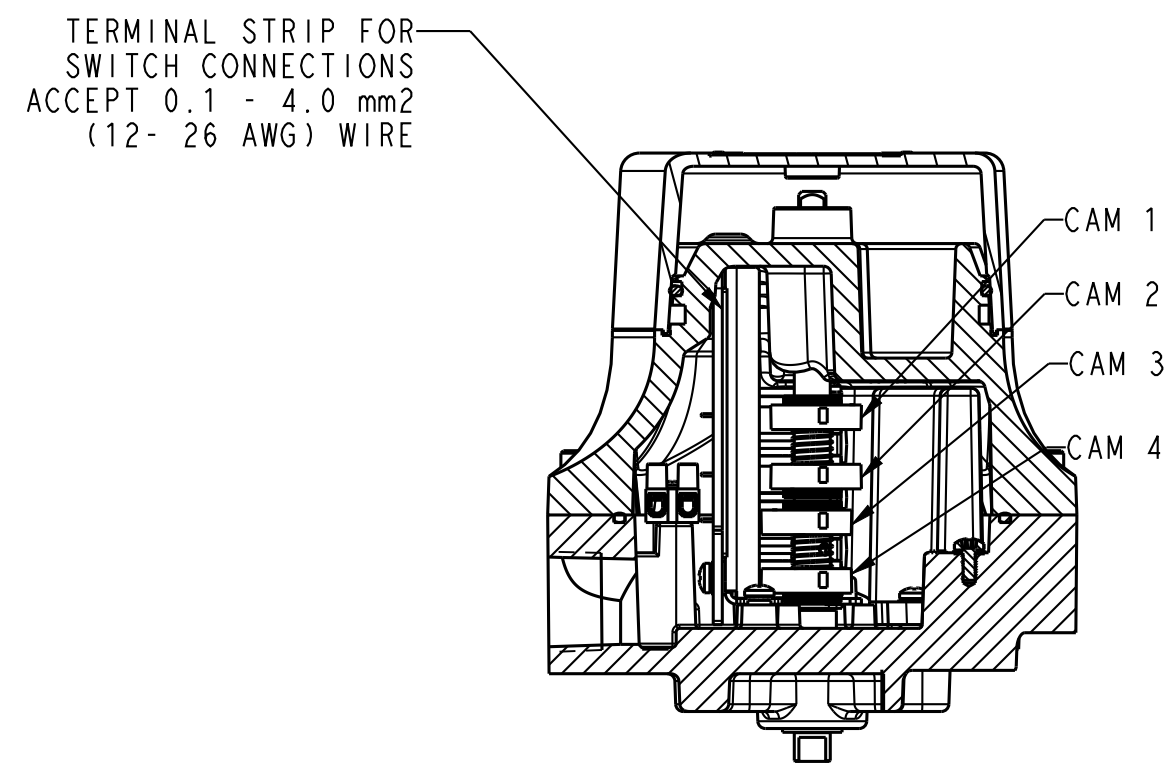
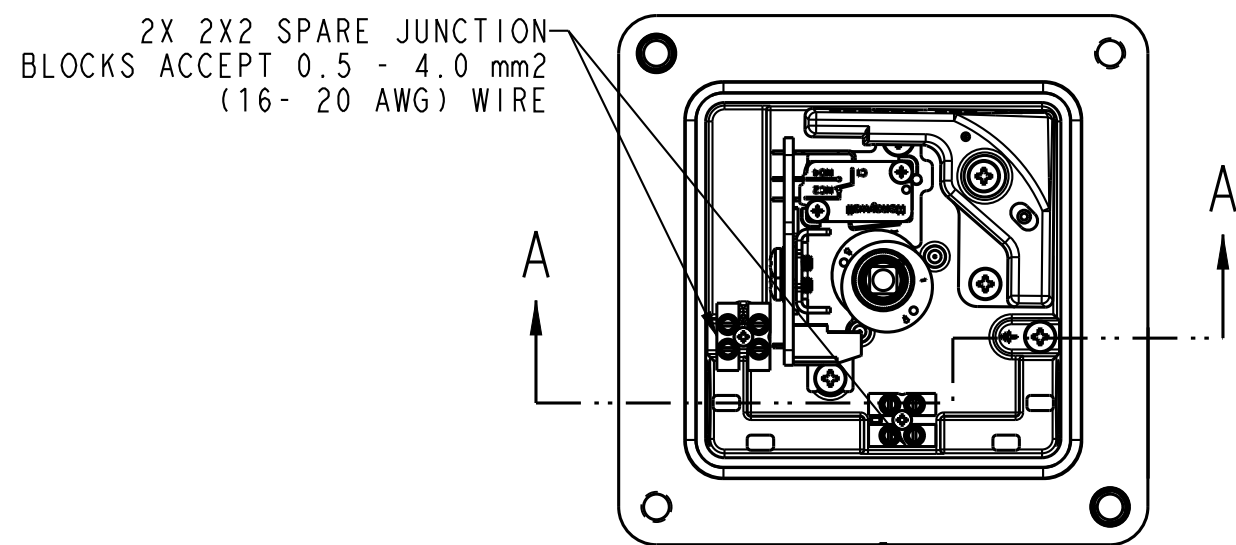
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SWITCH ASSEMBLY FOR HAZARDOUS LOCATIONS

SIZE A2	CAGE CODE -	DWG NO VPX SERIES CHART 1	TYPE I	REV J
SCALE 1:2	REF WT.	SHEET 1 of 3		
RELEASE DATE 2016-03-28	DRW: S. SPEECE	2016-03-28	HONEYWELL CONFIDENTIAL THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE, NOR USED FOR MANUFACTURING PURPOSES WITHOUT WRITTEN PERMISSION FROM HONEYWELL	
RDE: S. SPEECE	2016-03-28			
QA: M. SOPCIC	2016-03-28			
CHK: S. SPEECE	2016-03-28			

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- NOTES:
- 1- NOT ALL APPROVALS APPLY TO ALL LISTINGS. SEE COUNTRY OF ORIGIN / CERTIFICATIONS TABLE FOR APPLICABLE AGENCY APPROVALS
 - 2- INTRINSICALLY SAFE RATING ONLY APPLIES IF USING SWITCH OPTION 2C
 - 3- RESTRICTED TO PREMIUM OPTIONS C AND E. VERSIONS WITH PROXIMITY SWITCHES ARE APPROVED AS Ex ia PER ATEX AND IECEx AND Ex db / tb PER cULus
 - 4- SEE BOTTOM VIEW ON SHEET 2 FOR DEFINITION OF CONDUIT LOCATIONS A, B, C AND D
 - 5- SCREWS TO BE TIGHTENED TO 18±2 Nm (13±1.5 FT-LB) WITH 6mm HEX KEY, MINIMUM YIELD STRENGTH: 205 MPa
 - 6- VISUAL INDICATOR IS FACTORY SET WITH CLOSED POSITION ORIENTED TO ENCLOSURE AS SHOWN. THE VISUAL INDICATOR IS ADJUSTABLE IN 90° INCREMENTS
 - 7- SHAFT ORIENTATION IS FACTORY SET RELATIVE TO THE ENCLOSURE AS SHOWN
 - 8- SCREWS TO BE TIGHTENED UNTIL THE HEAD IS FLUSH TO THE INDICATOR COVER
 - 9- PROXIMITY SWITCHES HAVE THE FOLLOWING ELECTRICAL CHARACTERISTICS
SWITCH ELEMENT FUNCTION: NAMUR, NC
NOMINAL VOLTAGE: 8.2 V
CURRENT CONSUMPTION (OFF) > 3 mA
CURRENT CONSUMPTION (ON) < 1 mA
 - 10- SNAP ACTION SWITCHES HAVE THE FOLLOWING RATINGS:
UL: 15A 150 VAC / 10A 250 VAC / 0.5A 250 VDC
CE: 16A 250 VAC / 0.5A 250 VDC
 - 11- SIL APPROVALS APPLY TO APPROVAL CODES C AND E.



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TITLE SWITCH ASSEMBLY FOR HAZARDOUS LOCATIONS					
SIZE	CAGE CODE	DWG NO	TYPE	REV	
A2	-	VPX SERIES CHART 1	I	J	
SCALE		REF. WT.	SHEET		
1:2			2 of 3		

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TITLE SWITCH ASSEMBLY FOR HAZARDOUS LOCATIONS				
SIZE A2	CAGE CODE -	DWG NO VPX SERIES CHART 1		TYPE I
SCALE 1 : 2	REF. WT. 		SHEET 3 of 3	