

### MICRO SWITCH Hazardous Area Switches



#### **DESCRIPTION**

MICRO SWITCH EX Series switches feature the smallest UL-listed housings available for use in hazardous locations. The EX Series switch cavity is designed to cool expanding gases below the ignition temperature of the surrounding explosive atmosphere. The EX Series is capable of switching up to 20 amps while providing ample wiring space for ease of installation. Single and double conduit openings are available. Dual conduit openings may allow for through wiring of multiple switches. The EX Series can be mounted from any of the switch's four sides.

#### **VALUE TO CUSTOMERS**

- Honeywell has over 80 years of switch manufacturing experience covering most environment types
- Proven technology plus superior quality and service are offered worldwide. The EX Series holds multiple agency approvals, including CE, IEC Ex, UL, CSA, INMETRO, and ATEX directives
- Multiple actuator options make the EX Series a good choice for indoor explosion-proof applications
- Smallest UL-listed, power-load carrying switch available for use in hazardous locations

#### **FEATURES**

- Compact and rugged housing
- Ample wiring space that eases installation time
- Four-sided mounting with optional mounting bracket
- Dual conduit openings on select models
- Broad range of actuator styles available in pin plunger and rotary configurations.
- Switching capacity from 1 A for low energy loads, up to 20 A for most industrial electrical loads
- Rotary actuators are field adjustable for quick set up and application adaptability
- Roller lever actuators are adjustable through 360° of rotation
- 1EX and 2EX listings have dual conduit openings enabling "wire through" or allowing the user to split the wiring of a double pole switch with one pole exiting each side
- Manufactured for harsh and explosive environments
- International approvals for use around the world

#### **APPLICATIONS**

- Industrial paint booths
- Petroleum and chemical plants
- Processing facilities

### **PORTFOLIO**



The EX Series is part of the MICRO SWITCH family of hazardous area switches that include the BX.

BX2, LSX, VPX, CX, GSX, GXS and 14CE100 Series switches. To view the entire product portfolio, click here



TABLE 1. SPECIFICATIONS								
Characteristic	Parameter							
Product type	MICRO SWITCH™ hazardous lo	cation limit switches						
Actuators	overtravel top plunger adjustable roller lever adjustable rod lever with one-ir	side roller lever rod lever ich nylon roller	one-way roller lever manually activated paddle					
Circuitry	SPDT, DPDT							
Electrical	1 A, 3 A, 5 A, 10 A, 15 A, and 20	A, 3 A, 5 A, 10 A, 15 A, and 20 A						
Housing material	Aluminum die-cast	Aluminum die-cast						
Termination types	1/2-14 NPT conduit, preleaded	1/2-14 NPT conduit, preleaded						
Sealing	Class I, Div.1 & 2, <b>Groups B*</b> , C [ <b>*Group B - only as noted in o</b>	NEMA 1, 7, and 9, UL listed, and CSA certified: Class I, Div.1 & 2, <b>Groups B*</b> , C, and D  [*Group B - only as noted in order guide] Class II, Div.1 & 2, Groups E, F, and G						
Operating temperature <sup>1</sup>	-40 °C to 71 °C [-40 °F to 160 ° *High temp models available u		order guide on pages 6 and 7)					
Agency approvals and standards	IEC Ex, ATEX (CE), UL, CSA, INN	METRO						
UL listed	#E14274							
CSA certified	#LR57324	#LR57324						
INMETRO certified	TÜV 14.0554 X							
ATEX directive <sup>2</sup>	KEMA 04ATEX2312X							
IEC Ex certified	KEM 08.0012X							
UNSPSC code	302119							
UNSPSC commodity	302119 Switches and controls	and relays						

<sup>&</sup>lt;sup>1</sup> Refer to order guide

 $<sup>^{\</sup>rm 2}\,{\rm Most}$  models, refer to individual specifications for selected catalog listings

TABLE 2. AGENCY	APPROVALS AND STANDARDS	
	UL, CE/ATEX, CSA, IEC Ex, INMETRO	Standards & Designations
UL listed	#E14274	UL 1203
CSA certified	#LR57324	C22.2 No. 25 and No. 30
ATEX directive *	KEMA 04ATEX2312X	II 2 G Ex db IIB + H2 T6 Gb (EX) II 2 G Ex db IIB + H2 T2 Gb (EXHT) EN60079-0 and EN60079-1
IEC Ex certified *	KEM 08.0027X	II 2 G Ex db IIB + H2 T6 Gb (EX) II 2 G Ex db IIB + H2 T2 Gb (EXHT) IEC60079-0 and IEC60079-1
INMETRO certified *	TÜV 14.0554 X	IEC60079-0 and IEC60079-1

<sup>\*</sup>Most models, refer to individual specifications for selected catalog listings

TABLE 3	3. CIRCUITI	RY AND ELECTRICAL RATINGS
Rating code	Circuitry	Electrical rating
А	SPDT	UL/CSA Rating: 15 A, 125, 250, or 480 Vac 1/8 HP, 125 Vac; 1/4 HP, 250 Vac 0.5 A, 125 Vdc; 0.25 A 250 Vdc
В	SPDT	UL/CSA Rating: 20 A, 125, 250, or 480 Vac 10 A, 125 Vac "L" 1 HP, 125 Vac; 2 HP, 250 Vac 0.5 A, 125 Vdc; 0.25 A, 250 Vdc
С	DPDT	UL/CSA Rating: 10 A, 125 or 250 Vac 0.3 A, 125 Vac; 0.15 A 250 Vdc
D	SPDT	UL/CSA Rating: 10 A, 125, 250, or 480 Vac 0.5 A, 125 Vdc; 0.25 A 250 Vdc
Е	SPDT	UL Rating: 1 A, 125 Vac
F	SPDT	UL/CSA Rating: 3 A, 125 or 250 Vac 1/10 HP, 125 Vac; 1/6 HP, 250 Vac
G	SPDT	UL/CSA Rating: 5 A, 125, 250, or 480 Vac; 0.50 A, 125 Vdc; 0.25 A, 250 Vac

TABLE 4	4. HAZARDOUS LOCATION CLASSIFICATIONS
Rating code	Classification
1	Explosion Proof-UL listed for Hazardous Locations NEMA 7, Class I, Groups B, C, and D NEMA 9, Class II, Groups E, F, and G
2	Explosion Proof-UL listed for Hazardous Locations NEMA 7, Class I, Groups C and D NEMA 9, Class II, Groups E, F, and G
3	European Hazardous Locations Designation: Ex db IIB + H2 T6 Category II 2 G
4	European Hazardous Locations Designation: Ex db IIB + H2 T2 Category II 2 G
5	Brazilian Hazardous Location Designation: Ex db IIB + H2 T6 Gb
6	Brazilian Hazardous Location Designation: Ex db IIB + H2 T2 Gb

Series	Code	ATEX Temperature Rating
EX	Т6	-40 °C to 70 °C [-40 °F to 158 °F]
EXHT	T2	-40 °C to 204 °C [-40 °F to 400 °F]

MICRO SW	/ITCH EX	SERIES	ORDE	R GU	IDE					
	Catalog Listing	Actuation	Circuitry	Electrical Rating	UL/CE Haz. Loca- tion Code	Operating Force	Pretravel max. mm [in]	Overtravel max.	Diff. Travel max. mm [in]	Notes
	EX-AR	CW*	SPDT	15 A (A)	2, 3, 5	2,22 N to 5,56 N [8 oz to 20 oz]	5,56 [0.219] (8°)	90°	0,18 [0.007] (0.25°)	
	EX-AR141	CW*	SPDT	15 A (A)	2, 3, 5	2,22 N to 5,56 N [8 oz to 20 oz]	5,56 [0.219] (8°)	90°	0,18 [0.007] (0.25°)	No mounting bracket
	EXA-AR	CW*	SPDT	20 A (B)	2, 3, 5	3,34 N to 8,90 N [12 oz to 32 oz]	5,56 [0.219] (8°)	25°	0,304 [0.012]	
	EXA-AR20	CW*	SPDT	15 A (B)	2, 3, 5	-	5,56 [0.219] (8°)	25°	_	No lever furnished (order separately)
	EX-AR16	CW or CCW*	SPDT	15 A (A)	2, 3, 5	0,56 N [2 oz] max.	5,56 [0.219] (8°)	90°	0,18 [0.007] (0.25°)	Low O.F. (no return spring) without mounting bracket
	EX- AR1613	CW*	SPDT	15 A (A)	2, 3, 5	0,56 N [2 oz] max.	16° ± 2°	40° min.	-	0.125 in x 5.28 in aluminum lever (no mounting bracket)
	EX-AR20	CW*	SPDT	15 A (A)	2, 3, 5	3,81 N to 9,53 N [12.5 oz to 31.25 oz]	5,56 [0.219] (8°)	90°	0,18 [0.007] (0.25°)	No lever furnished (order separately)
	EX-AR230	CCW*	SPDT	15 A (A)	2, 3, 5	0,45 Nm [4.0 in-lb]	1,65 [0.065]	25°	0,18 [0.007] (0.25°)	No lever furnished (order separately)
	EX- AR471-3	CW*	SPDT	15 A (A)	2, 3, 5	3,34 N to 7,32 N [12 oz to 24 oz]	5,56 [0.219] (8°)	90°	0,533 [0.021] (0.75°)	36 inch leadwire
	EX-AR50	Manual opera- tion	SPDT	15 A (A)	2, 3, 5	11,12 N [40 oz]	-	3,18 [0.125] min.	0,077 [0.003] approx.	Large 3 in x 3.5 in paddle

<sup>\*</sup>Note: CW (Clockwise) and CCW (Counter-Clockwise) when looking at nameplate. EX Series switches are not sealed against liquids and are not intended to be used in liquid splash environments or outdoor use without protection. NEMA 1, 7, 9 only.

<sup>4</sup> sensing.honeywell.com

MICRO SW	/ITCH EX	SERIES	ORDE	R GU	IDE					
	Catalog Listing	Actuation	Circuitry	Electrical Rating	UL/CE Haz. Loca- tion Code	Operating Force	Pretravel max. mm [in]	Overtravel max.	Diff. Travel max. mm [in]	Notes
	EX-AR128	CW*	SPDT	15 A (A)	2, 3, 5	2,22 N to 5,56 N [8 oz to 20 oz]	5,56 [0.219] (8°)	90°	0,18 [0.007] (0.25°)	One-way roller lever
	EXD-AR-3	CW*	DPDT	10 A (C)	1, 3, 5	2,44 N to 7,32 N [8 oz to 24 oz]	6,35 [0.25]	25°	2,77 [0.109]	36 inch wire leads
	EXA-N	Plunger	SPDT	20 A (B)	2, 3, 5	15,57 N [56 oz]	2,77 [0.109]	3,18 [0.125] min.	0,229 [0.009]	With seal boot
	EXA-Q	Plunger	SPDT	20 A (B)	2, 3, 5	8,90 N [32 oz]	1,27 [0.05]	3,18 [0.125] min.	0,229 [0.009]	
	EXHT-Q	Plunger	SPDT	3 A (F)	1, 4, 6	8,90 N [32 oz]	1,27 [0.05]	3,18 [0.125] min.	0,229 [0.009]	400° high tempera- ture
	EX-Q400	Plunger	SPDT	5 A (G)	1,5	13,34 N [48 oz]	1,98 [0.078]	4,78 [0.188]	0,102 [0.004]	400° high tempera- ture intermittent expo- sure
	EXHT-AR	CW*	SPDT	3 A (F)	1, 4, 6	3,34 N to 8,90 N [12 oz to 32 oz]	5,56 [0.219] (8°)	25°	0,406 [0.016]	400° high tempera- ture
	1EX1	CW*	SPDT	15 A (A)	2, 3, 5	2,22 N to 5,56 N [8 oz to 20 oz]	5,56 [0.219] (8°)	90°	0,18 [0.007] (0.25°)	Dual conduit open- ings
	2EX1	CW*	DPDT	20 A (B)	2, 3, 5	3,34 N to 8,90 N [12 oz to 32 oz]	5,56 [0.219] (8°)	25°	0,305 [0.012] (0.5°)	Dual conduit open- ings

<sup>\*</sup>Note: CW (Clockwise) and CCW (Counter-Clockwise) when looking at nameplate. EX Series switches are not sealed against liquids and are not intended to be used in liquid splash environments or outdoor use without protection. NEMA 1, 7, 9 only.

## **DIMENSIONAL DRAWINGS mm [in]**

Figure 1. MICRO SWITCH EX Series, no lever

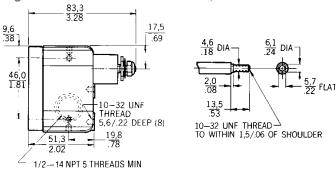


Figure 2. MICRO SWITCH EX Series, side rotary

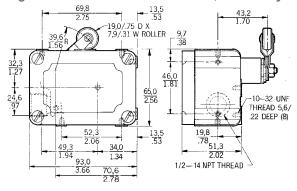


Figure 3. MICRO SWITCH EX Series, side rotary with two conduit openings

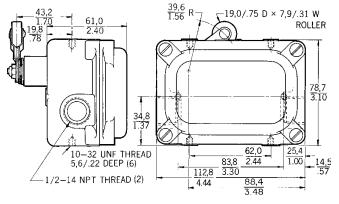


Figure 4. MICRO SWITCH EX Series, one-way lever

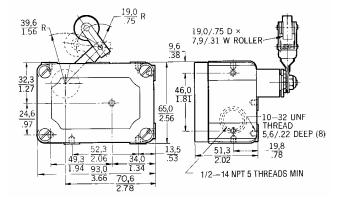


Figure 5. MICRO SWITCH EX Series, rod lever

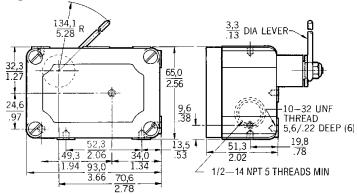


Figure 6. MICRO SWITCH EX Series, top pin plunger

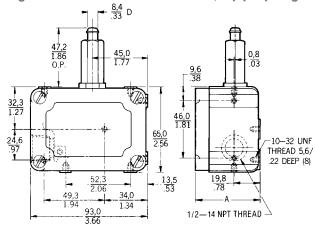


Figure 7. MICRO SWITCH EX Series, boot sealed

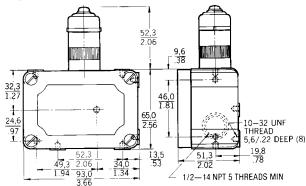
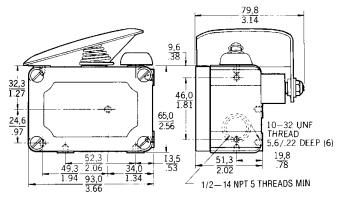


Figure 8. MICRO SWITCH EX Series, manually actuated



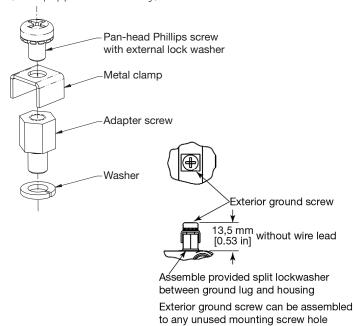
Basic Switch           EXA-AR         BA-2R-P4         6PA5-EX         33PA6-EX           EXA-Q         BZ-2R-P4         8PA15-EX         —           EX-AR         BZ-2R-P4         6PA5-EX         33PA7-EX           EX-AR128         BZ-2R-P4         6PA130-EX         33PA7-EX           EX-AR16         BZ-2RW88-P5         6PA5-EX         —           EX-AR1613         BZ-2R-W88-P5         6PA136-EX         —           EX-AR20*         BZ-2R-P4         *         33PA7-EX           EX-AR30         BZ-2R-P4         6PA5-EX         33PA5-EX           EX-AR50         BZ-2R-P4         6PA5-EX         33PA7-EX           EX-AR800         BZ-2R-P4         6PA5-EX         33PA7-EX           EXD-AR-3         DT-2R-A7         6PA5-EX         33PA6-EX           EXD-AR30-3         DT-2R-A7         6PA5-EX         33PA5-EX           EXD-Q-3         DT-2R-A7         8PA77-EX         —           EXH-AR3         4HS202         6PA5-EX         33PA6-EX           EXH-AR33         4HS203         6PA5-EX         33PA6-EX           EX-Q         BZ-2R-P4         8PA12-EX         —           EX-Q         BZ-2R-P4         8PA15-EX	TABLE 5. REPLACEMENT C	ATALOG LISTINGS		
EXA-Q         BZ-2R-P4         8PA15-EX         -           EX-AR         BZ-2R-P4         6PA5-EX         33PA7-EX           EX-AR128         BZ-2R-P4         6PA130-EX         33PA7-EX           EX-AR16         BZ-2RW88-P5         6PA5-EX         -           EX-AR1613         BZ-2RW88-P5         6PA136-EX         -           EX-AR20*         BZ-2R-P4         *         33PA7-EX           EX-AR30         BZ-2R-P4         6PA5-EX         33PA5-EX           EX-AR50         BZ-2R-P4         6PA134-OP         33PA7-EX           EX-AR800         BZ-2R-P4         6PA5-EX         33PA7-EX           EX-AR33         DT-2R4-A7         6PA5-EX         33PA7-EX           EXD-AR30-3         DT-2R4-A7         6PA5-EX         33PA6-EX           EXD-Q-3         DT-2R-A7         8PA77-EX         -           EXH-AR3         4HS202         6PA5-EX         33PA6-EX           EXH-AR33         4HS203         6PA5-EX         33PA6-EX           EX-N15         BZ-2R15-P4         8PA12-EX         -           EX-Q800         BZ-2R-P4         8PA15-EX         -           DOuble Conduit         BZ-2R-P4         8PA15-EX         -	EX Series Part Number		Actuator	Internal Springs
EX-AR         BZ-2R-P4         6PA5-EX         33PA7-EX           EX-AR128         BZ-2R-P4         6PA130-EX         33PA7-EX           EX-AR16         BZ-2RW88-P5         6PA5-EX         -           EX-AR1613         BZ-2RW88-P5         6PA136-EX         -           EX-AR20*         BZ-2R-P4         *         33PA7-EX           EX-AR30         BZ-2R-P4         6PA5-EX         33PA5-EX           EX-AR50         BZ-2R-P4         6PA134-OP         33PA7-EX           EX-AR800         BZ-2R-P4         6PA5-EX         33PA7-EX           EXD-AR-3         DT-2R4-A7         6PA5-EX         33PA6-EX           EXD-AR30-3         DT-2R711-A7         6PA5-EX         33PA5-EX           EXD-Q-3         DT-2R-A7         8PA77-EX         -           EXH-AR3         4HS202         6PA5-EX         33PA6-EX           EXH-AR33         4HS203         6PA5-EX         33PA6-EX           EX-N15         BZ-2R15-P4         8PA12-EX         -           EX-Q         BZ-2R-P4         8PA15-EX         -           DOuble Conduit         BZ-2R-P4         8PA15-EX         -	EXA-AR	BA-2R-P4	6PA5-EX	33PA6-EX
EX-AR128       BZ-2R-P4       6PA130-EX       33PA7-EX         EX-AR16       BZ-2RW88-P5       6PA5-EX       —         EX-AR1613       BZ-2RW88-P5       6PA136-EX       —         EX-AR20*       BZ-2R-P4       *       33PA7-EX         EX-AR30       BZ-2R-P4       6PA5-EX       33PA5-EX         EX-AR50       BZ-2R-P4       6PA134-OP       33PA7-EX         EX-AR800       BZ-2R-P4       6PA5-EX       33PA7-EX         EXD-AR-3       DT-2R4-A7       6PA5-EX       33PA6-EX         EXD-AR30-3       DT-2R711-A7       6PA5-EX       33PA5-EX         EXD-Q-3       DT-2R-A7       8PA77-EX       —         EXH-AR3       4HS202       6PA5-EX       33PA6-EX         EXH-AR33       4HS203       6PA5-EX       33PA6-EX         EX-N15       BZ-2R15-P4       8PA12-EX       —         EX-Q       BZ-2R-P4       8PA15-EX       —         EX-Q800       BZ-2R-P4       8PA15-EX       —         DOuble Conduit	EXA-Q	BZ-2R-P4	8PA15-EX	-
EX-AR16         BZ-2RW88-P5         6PA5-EX         —           EX-AR1613         BZ-2RW88-P5         6PA136-EX         —           EX-AR20*         BZ-2R-P4         *         33PA7-EX           EX-AR30         BZ-2R-P4         6PA5-EX         33PA5-EX           EX-AR50         BZ-2R-P4         6PA134-OP         33PA7-EX           EX-AR800         BZ-2R-P4         6PA5-EX         33PA7-EX           EXD-AR-3         DT-2R4-A7         6PA5-EX         33PA6-EX           EXD-AR30-3         DT-2R711-A7         6PA5-EX         33PA5-EX           EXD-Q-3         DT-2R-A7         8PA77-EX         —           EXH-AR3         4HS202         6PA5-EX         33PA6-EX           EXH-AR33         4HS203         6PA5-EX         33PA6-EX           EX-N15         BZ-2R15-P4         8PA12-EX         —           EX-Q         BZ-2R-P4         8PA15-EX         —           EX-Q800         BZ-2R-P4         8PA15-EX         —           Double Conduit         -         -	EX-AR	BZ-2R-P4	6PA5-EX	33PA7-EX
EX-AR1613       BZ-2RW88-P5       6PA136-EX       —         EX-AR20*       BZ-2R-P4       *       33PA7-EX         EX-AR30       BZ-2R-P4       6PA5-EX       33PA5-EX         EX-AR50       BZ-2R-P4       6PA134-OP       33PA7-EX         EX-AR800       BZ-2R-P4       6PA5-EX       33PA7-EX         EXD-AR-3       DT-2R4-A7       6PA5-EX       33PA6-EX         EXD-AR30-3       DT-2R711-A7       6PA5-EX       33PA5-EX         EXD-Q-3       DT-2R-A7       8PA77-EX       —         EXH-AR3       4HS202       6PA5-EX       33PA6-EX         EXH-AR33       4HS203       6PA5-EX       33PA6-EX         EX-N15       BZ-2R15-P4       8PA12-EX       —         EX-Q       BZ-2R-P4       8PA15-EX       —         Double Conduit       PDOuble Conduit       PDOUBLE Conduit       PDOUBLE Conduit	EX-AR128	BZ-2R-P4	6PA130-EX	33PA7-EX
EX-AR20*       BZ-2R-P4       *       33PA7-EX         EX-AR30       BZ-2R-P4       6PA5-EX       33PA5-EX         EX-AR50       BZ-2R-P4       6PA134-OP       33PA7-EX         EX-AR800       BZ-2R-P4       6PA5-EX       33PA7-EX         EXD-AR-3       DT-2R4-A7       6PA5-EX       33PA6-EX         EXD-AR30-3       DT-2R711-A7       6PA5-EX       33PA5-EX         EXD-Q-3       DT-2R-A7       8PA77-EX       -         EXH-AR3       4HS202       6PA5-EX       33PA6-EX         EXH-AR33       4HS203       6PA5-EX       33PA6-EX         EX-N15       BZ-2R15-P4       8PA12-EX       -         EX-Q       BZ-2R-P4       8PA15-EX       -         EX-Q800       BZ-2R-P4       8PA15-EX       -         Couble Conduit	EX-AR16	BZ-2RW88-P5	6PA5-EX	-
EX-AR30 BZ-2R-P4 GPA5-EX 33PA5-EX EX-AR50 BZ-2R-P4 GPA134-OP 33PA7-EX EX-AR800 BZ-2R-P4 GPA5-EX 33PA7-EX EXD-AR-3 DT-2R4-A7 GPA5-EX 33PA6-EX EXD-AR30-3 DT-2R711-A7 GPA5-EX 33PA5-EX EXD-Q-3 DT-2R-A7 8PA77-EX - EXH-AR3 4HS202 GPA5-EX 33PA6-EX EXH-AR33 4HS203 GPA5-EX 33PA6-EX EXH-AR33 GPA5-EX 33PA6-EX EXH-AR30 BZ-2R15-P4 8PA12-EX - EX-Q BZ-2R-P4 8PA15-EX - EX-Q800 BZ-2R-P4 8PA15-EX - Double Conduit	EX-AR1613	BZ-2RW88-P5	6PA136-EX	-
EX-AR50       BZ-2R-P4       6PA134-OP       33PA7-EX         EX-AR800       BZ-2R-P4       6PA5-EX       33PA7-EX         EXD-AR-3       DT-2R4-A7       6PA5-EX       33PA6-EX         EXD-AR30-3       DT-2R711-A7       6PA5-EX       33PA5-EX         EXD-Q-3       DT-2R-A7       8PA77-EX       -         EXH-AR3       4HS202       6PA5-EX       33PA6-EX         EXH-AR33       4HS203       6PA5-EX       33PA6-EX         EX-N15       BZ-2R15-P4       8PA12-EX       -         EX-Q       BZ-2R-P4       8PA15-EX       -         EX-Q800       BZ-2R-P4       8PA15-EX       -         Double Conduit	EX-AR20*	BZ-2R-P4	*	33PA7-EX
EX-AR800       BZ-2R-P4       6PA5-EX       33PA7-EX         EXD-AR-3       DT-2R4-A7       6PA5-EX       33PA6-EX         EXD-AR30-3       DT-2R711-A7       6PA5-EX       33PA5-EX         EXD-Q-3       DT-2R-A7       8PA77-EX       —         EXH-AR3       4HS202       6PA5-EX       33PA6-EX         EXH-AR33       4HS203       6PA5-EX       33PA6-EX         EX-N15       BZ-2R15-P4       8PA12-EX       —         EX-Q       BZ-2R-P4       8PA15-EX       —         EX-Q800       BZ-2R-P4       8PA15-EX       —         Double Conduit	EX-AR30	BZ-2R-P4	6PA5-EX	33PA5-EX
EXD-AR-3         DT-2R4-A7         6PA5-EX         33PA6-EX           EXD-AR30-3         DT-2R711-A7         6PA5-EX         33PA5-EX           EXD-Q-3         DT-2R-A7         8PA77-EX         -           EXH-AR3         4HS202         6PA5-EX         33PA6-EX           EXH-AR33         4HS203         6PA5-EX         33PA6-EX           EX-N15         BZ-2R15-P4         8PA12-EX         -           EX-Q         BZ-2R-P4         8PA15-EX         -           EX-Q800         BZ-2R-P4         8PA15-EX         -           Double Conduit         DT-2R-A7         8PA15-EX         -	EX-AR50	BZ-2R-P4	6PA134-OP	33PA7-EX
EXD-AR30-3       DT-2R711-A7       6PA5-EX       33PA5-EX         EXD-Q-3       DT-2R-A7       8PA77-EX       -         EXH-AR3       4HS202       6PA5-EX       33PA6-EX         EXH-AR33       4HS203       6PA5-EX       33PA6-EX         EX-N15       BZ-2R15-P4       8PA12-EX       -         EX-Q       BZ-2R-P4       8PA15-EX       -         EX-Q800       BZ-2R-P4       8PA15-EX       -	EX-AR800	BZ-2R-P4	6PA5-EX	33PA7-EX
EXD-Q-3         DT-2R-A7         8PA77-EX         –           EXH-AR3         4HS202         6PA5-EX         33PA6-EX           EXH-AR33         4HS203         6PA5-EX         33PA6-EX           EX-N15         BZ-2R15-P4         8PA12-EX         –           EX-Q         BZ-2R-P4         8PA15-EX         –           EX-Q800         BZ-2R-P4         8PA15-EX         –           Double Conduit         -         -	EXD-AR-3	DT-2R4-A7	6PA5-EX	33PA6-EX
EXH-AR3       4HS202       6PA5-EX       33PA6-EX         EXH-AR33       4HS203       6PA5-EX       33PA6-EX         EX-N15       BZ-2R15-P4       8PA12-EX       -         EX-Q       BZ-2R-P4       8PA15-EX       -         EX-Q800       BZ-2R-P4       8PA15-EX       -         Double Conduit	EXD-AR30-3	DT-2R711-A7	6PA5-EX	33PA5-EX
EXH-AR33         4HS203         6PA5-EX         33PA6-EX           EX-N15         BZ-2R15-P4         8PA12-EX         -           EX-Q         BZ-2R-P4         8PA15-EX         -           EX-Q800         BZ-2R-P4         8PA15-EX         -           Double Conduit         -         -	EXD-Q-3	DT-2R-A7	8PA77-EX	-
EX-N15         BZ-2R15-P4         8PA12-EX         -           EX-Q         BZ-2R-P4         8PA15-EX         -           EX-Q800         BZ-2R-P4         8PA15-EX         -           Double Conduit	EXH-AR3	4HS202	6PA5-EX	33PA6-EX
EX-Q BZ-2R-P4 8PA15-EX – EX-Q800 BZ-2R-P4 8PA15-EX – Oouble Conduit	EXH-AR33	4HS203	6PA5-EX	33PA6-EX
EX-Q800 BZ-2R-P4 8PA15-EX –  Double Conduit	EX-N15	BZ-2R15-P4	8PA12-EX	-
Double Conduit	EX-Q	BZ-2R-P4	8PA15-EX	-
	EX-Q800	BZ-2R-P4	8PA15-EX	-
45V4	Double Conduit			
1EX1 BZ-2R-P4 6PA5-EX 33PA6-EX	1EX1	BZ-2R-P4	6PA5-EX	33PA6-EX
2EX1 BZ-2R-P4 6PA5-EX 33PA6-EX	2EX1	BZ-2R-P4	6PA5-EX	33PA6-EX
4EX1-3 DT-2R4-A7 6PA5-EX 33PA6-EX	4EX1-3	DT-2R4-A7	6PA5-EX	33PA6-EX

<sup>\*</sup> Order levers separately

TABLE 6. ACTUATOR	R ORDER CODES	
	Туре	Part Number
	One-way roller lever (for CW actuation)	6PA130-EX (bronze roller)
	One-way roller lever (for CCW actuation)	6PA142-EX (bronze roller)
	Adjustable length roller lever 43 mm to 76 mm [1.7 in to 3 in]	6PA138-EX (nylon roller)
• •	Rod lever 134 mm [5.28 in]	6PA136-EX (aluminum rod)
- <del> </del>	Adjustable length 317,5 mm [12.5 in] max. rod lever with 25,4 mm [1 in] nylon roller	6PA204-EX
	Roller lever	6PA5-EX (bronze roller) 6PA127-EX (nylon roller)

#### **GROUNDING SCREW ASSEMBLY**

(for equipped models only)



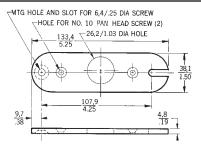
## TABLE 7. MOUNTING BRACKETS

## 15PA85-EX (for side rotary)

# MTG HOLE AND SLOT FOR 6,4/.25 DIA SCREW THOLE FOR NO. 10 PAN HEAD SCREW (6)

used for top, bottom, back, or end mounting. It is furnished with each switch, except where noted in the order guides.

## 15PA86-EX (for top plunger)



ordered separately for top mounting of plunger switches. EX switches may also be direct mounted, using 10-32 UNF screws.

Listing	CW	ccw	Plung-	SPDT	DPDT	2-CKT	1 A	10 A	15 A	20 A	Class 1 Group	Pre-
Listing	CVV	CCW	er	ועפנ	וטפט	DB	IA	IUA	15 A	20 A	Group B	leaded
EXA-AR62	✓									✓		
EXA-N			✓	✓						✓		
EX-AR1620				✓					✓			
EX-AR-1621				✓					✓			
EX-AR182	✓			✓					✓			
EX-AR30		✓		✓					✓			
EX-AR400	✓			✓			5 A					
EX-AR420	✓			✓			5 A					
EX-AR471-15	✓					✓			✓			15 ft
EX-AR471-3	✓					✓			✓			3 ft
EX-AR68	✓			✓					✓			
EX-AR8	✓			✓					✓			
EX-AR800	✓			✓					✓		✓	
EX-AR830		✓		✓					✓			
EX-AR87	✓			✓					✓			
EXD-AR20-3	<b>✓</b>				<b>√</b>			✓			✓	3 ft
EXD-AR-3	✓				✓			✓			✓	3 ft
EXD-AR30-3		✓			✓			✓			<b>✓</b>	3 ft
EXD-AR30-6		✓			✓			✓			✓	6 ft
EXD-AR62-3	<b>✓</b>				<b>√</b>			<b>√</b>			<b>✓</b>	3 ft
EXD-AR87-3	<b>✓</b>				✓			✓			<b>✓</b>	3 ft
EXD-N-3			<b>✓</b>		<b>√</b>			<b>√</b>			<b>✓</b>	3 ft
EXD-Q26-2			✓		√ ·			√ ·			✓	3 ft
EXD-Q-3			<b>✓</b>		✓ ·			✓ ·			<b>✓</b>	2 ft
EXD-Q62-3			✓		√ ·			· ✓			✓	3 ft
EXH-AR2	<b>✓</b>			<b>√</b>			✓					✓ ·
EXH-AR3	√ ·			√ ·			✓				<b>✓</b>	10.5 ft
EXH-AR33		<b>/</b>		<i>✓</i>			· ✓				<b>√</b>	10.5 ft
EXH-AR7	<b>✓</b>	· ·		· ✓			·				· ·	3 ft
EXH-AR7-R1	<b>✓</b>			<b>√</b>			<b>→</b>				<b>√</b>	310
EXH-N	•		<b>√</b>	<b>√</b>			<b>→</b>				<b>→</b>	
EXH-Q26-2			<b>√</b>	<b>√</b>			<b>→</b>				<b>√</b>	
EXHT-AR403	✓		•	<b>∨</b>			3 A				·	
EX-N15	•		<b>✓</b>	<b>∨</b> ✓			JA	<b>✓</b>				
EX-N15			<b>∨</b>	SPNO				<b>∨</b>				
			<b>√</b>	SPNU ✓				<b>V</b>	<b>√</b>			
EX-Q EX-Q1			<b>∀</b>	SPNO				✓	<b>V</b>			
			<b>✓</b>	SPNU ✓				V				
EX-Q171												
EX-Q173			<b>√</b>	<b>√</b>								
EX-Q19				<b>√</b>								
EX-Q22			<b>√</b>	<b>√</b>								
EX-Q62			<b>√</b>	<b>√</b>					,			
EX-Q800			✓	✓					✓		✓	
Double Conduit												
4EX1-3	✓				✓			✓				3 ft

#### ADDITIONAL MATERIALS

The following associated literature is available on the Honeywell web site at sensing.honeywell.com:

- Product installation instructions
- Product range guide
- Hazardous location switches product brochure
- Product application-specific information
  - Application note: Electronic sensors and electromechanical switches in valves and flow meters
  - Application note: Industrial waste water treatment
  - Application note: Sensors and switches for industrial manual process valves
  - Sensors and switches in oil rig applications

#### FOR MORE INFORMATION

Honeywell Sensing and Internet of Things services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing, or the nearest Authorized Distributor, visit sensing.honeywell.com or call:

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#### WARRANTY/REMEDY

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While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

## **△ WARNING**PERSONAL INJURY

 DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

## **⚠ WARNING**MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only.
   Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

## Honeywell

**Sensing and Internet of Things** 

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