Honeywell

MICRO SWITCH™ BAF/DTF Series

High Capacity Enclosed Switches



DESCRIPTION

MICRO SWITCH BAF1 high capacity enclosed switches offer elastomer boot on sealed actuator verions that protects the actuating mechanism and the internal basic switch from contaminants. There is a seal gasket between the cover plate and the enclosures on all versions. The cover plate is removed for ease of wiring and switch replacement without demounting the switch. The actuator position is designated "right" or "left," when looking at the nameplate.

FEATURES

- Up to 20 ampere capacity
- Cast aluminum housing with three-hole mounting
- · Right or left-handed (sealed or unsealed) actuators
- Cover seal, captive cover screws
- Momentary or maintained contact
- UL recognized, file #E12252
- CSA certified, file #LR41372
- Sealed to NEMA 1, 3, 4 and 13 requirements
- Grounding screw

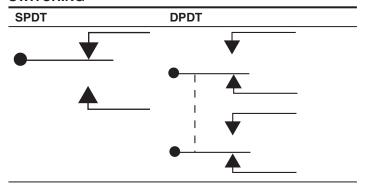
POTENTIAL APPLICATIONS

- Packaging equipment
- Special machinery
- Agricultural machinery
- Conveyors
- Overhead cranes and hoists

SPECIFICATIONS

Characteristic	Parameter					
Description	High capacity enclosed switch					
Actuators	 Straight plunger (with boot seal) Top roller plunger (without boot seal) Flexible rod (with boot seal) Manually operated (with boot seal) Roller arm, adjustable (with boot seal) One-way roller lever (with boot seal) NMaintained contact (reset) plunger (with boot seal)= 					
Conduit	1/2 in-14 NPT					
Switching options	1NO/1NC SPDT maintained 1NO/1NC SPDT snap-action 2NO/2NC DPDT snap-action					
Sealing	NEMA 1, 3, 4 and 13					
Operating temperature	-32 °C to 71 °C [-25 °F to 160 °F] (standard)					
Housing material	Zinc die-cast					
Approvals	UL, CSA					

SWITCHING



ELECTRICAL RATINGS

Rating Code	Electrical rating				
В	UL/CSA Rating: 10 A, 125 Vac or 250 Vac 0.3 A, 125 Vdc; 0.15 A, 250 Vdc				
D	UL/CSA Rating: 20 A, 125 Vac, 250 Vac or 480 Vac 1 HP, 125 Vac; 2 HP, 250 Vac 1/2 A, 125 Vdc; 1/4 A, 250 Vdc Lamp load, 10 A, 125 Vac				

					Straight	Plunger	Maintained Contact Straight Plunger (Reset) Switch	
				Description	AA 152 208 480 VAC; 184-125 VAC 11-118-125 VAC, 24P-209 172A-125 VOC. 114A-205 VOC. MICROR TILLLINOIS, U. S. GHISE USINE		Nicho Shiron	
				Pretravel	2,39 mm [0.094 in]	3,59 mm [0.141 in]	2,39 mm [0.094 in]	
				Different. travel	0,26 mm [0.010 in]	1,53 mm [0.060 in]	_	
				Overtravel	5,56 mm [0.219 in]	3,96 mm [0.156 in]	4,45 mm [0.219 in]	
				Operating force	11,2 N [2.5 lb]	11,2 N [2.5 lb]	7,79 N [1.75 lb]	
				Operating posi- tion	53,19 mm ±0,76 mm [2.094 in ±0.030 in]	52,07 mm ±1,0 mm [2.05 in ±0.040 in]	-	
Actuator Position	Electric Rating	Seal boot	Switching	Options				
Right	D	Yes	SPDT		BAF1-2RN-RH			
Left	D	Yes	SPDT		BAF1-2RN-LH			
Right	В	Yes	DPDT			DTF2-2RN-RH		
Left	В	Yes	DPDT			DTF2-2RN-LH		
Right	D	Yes	Main- tained SPDT	with boot seal on both top and bottom plungers			BAF1-3RNX1	

					Roller Plunger				
				Description	STATE OF THE PROPERTY OF THE P				
				Pretravel	2,39 mm [0.094 in]		3,18 mm [0.125 in]		
				Different. travel	0,25 mm [0.010 in]	1,53 mm [0.060 in]	0,19 mm [0.0075 in]	1,53 mm [0.060 in]	
				Overtravel	3,96 mm [0.156 in]	3,18 mm [0.125 in]	4,75 mm [0.187 in]	3,18 mm [0.125 in]	
				Operating force	11,1 N	[2.5 lb]	35,6 N	N [8 lb]	
				Operating position	64,69 mm [2.547 in]	63,88 mm [2.515 in]	64,69 mm [2.547 in]	63,88 mm [2.515 in]	
Actuator Position	Electric Rating	Seal boot	Switching	Options					
Right	D	No	SPDT	field adjustable 360° horizontally	BAF1-2RQ9-RH				
Left	D	No	SPDT	field adjustable 360° horizontally	BAF1-2RQ9-LH				
Right	D	No	DPDT	field adjustable 360° horizontally		DTF1-2RQ9-RH			
Left	D	No	DPDT	field adjustable 360° horizontally		DTF1-2RQ9-LH			
Right	D	No	SPDT	has o-ring actuator seal; field adjustable 360° horizontally			BAF1-2RQN8-RH		
Left	D	No	SPDT	has o-ring actuator seal; field adjustable 360° horizontally			BAF1-2RQN8-LH		
Right	D	No	DPDT	has o-ring actuator seal; field adjustable 360° horizontally				DTF1-2RQN8-RH	
Left	D	No	DPDT	has o-ring actuator seal; field adjustable 360° horizontally				DTF1-2RQN8-LH	

Flexible Rod

One-Way Roller

					noller Level		Lever	riexible nou	
		Description			MICRO SWITCH			MICRO SWITCH	
				Pretravel	5,56 mm [0.219 in]	7,93 mm [0.312 in]	5,56 mm [0.219 in]	15°	
				Different. travel	0,51 mm [0.020 in]	3,05 mm [0.120 in]	0,51 mm [0.020 in]	-	
				Overtravel	6,35 mm [0.250 in]	5,56 mm [0.219 in]	6,35 mm [0.250 in]	-	
				Operating force	8,90 N [2 lb]	11,1 N [2.5 lb]	8,90 N [2 lb]	-	
				Operating position	_	_	_	-	
Actuator Position	Electric	Seal	Switching	Options					
1 03111011	Rating	boot	J	- Francis					
Right	Rating D		SPDT	field adjustable 360° horizontally and 225° vertically	BAF1-2RN2-RH				
		boot		field adjustable 360° horizontally	BAF1-2RN2-RH BAF1-2RN2-LH				
Right	D	Yes	SPDT	field adjustable 360° horizontally and 225° vertically field adjustable 360° horizontally		DTF1-2RN2-RH			
Right Left	D D	Yes Yes	SPDT	field adjustable 360° horizontally and 225° vertically field adjustable 360° horizontally and 225° vertically field adjustable 360° horizontally		DTF1-2RN2-RH			
Right Left Right	D D	Yes Yes Yes	SPDT SPDT DPDT	field adjustable 360° horizontally and 225° vertically field adjustable 360° horizontally and 225° vertically field adjustable 360° horizontally and 225° vertically field adjustable 360° horizontally			BAF1-2RN28-RH		
Right Left Right Left	D D D	Yes Yes Yes Yes	SPDT SPDT DPDT	field adjustable 360° horizontally and 225° vertically field adjustable 360° horizontally			BAF1-2RN28-RH BAF1-2RN28-LH		
Right Left Right Left Right	D D D D	Yes Yes Yes Yes Yes	SPDT SPDT DPDT DPDT SPDT	field adjustable 360° horizontally and 225° vertically field adjustable 360° horizontally and 180° vertically field adjustable 360° horizontally and 180° vertically field adjustable 360° horizontally				BAF1-2RN18-RH	
Right Left Right Left Right Left	D D D D	Yes Yes Yes Yes Yes Yes	SPDT SPDT DPDT DPDT SPDT SPDT	field adjustable 360° horizontally and 225° vertically field adjustable 360° horizontally and 180° vertically field adjustable 360° horizontally and 180° vertically field adjustable 360° horizontally and 180° vertically operates from any direction, except				BAF1-2RN18-RH BAF1-2RN18-LH	

Roller Lever

					Manually Actuated Palm Button	Roller Arm Adjustable (Reset) Switch	Coil Wobble (Reset) Switch
				Description			
				Pretravel	-	5,56 mm [0.219 in]	15°
				Different. travel	-	-	_
				Overtravel	-	6,35 mm [0.25 in]	_
				Operating force	8,90 N [2 lb]	6,67 N [1.5 lb]	-
				Operating position	-	60,71 mm [2.390 in]	-
Actuator Position	Electric Rating	Seal boot	Switching	Options			
Right	D	Yes	SPDT	field adjustable 360° horizontally and 180° vertically	BAF1-2RN4-RH		
Left	D	Yes	SPDT	field adjustable 360° horizontally and 180° vertically	BAF1-2RN4-LH		
Right	D	Yes	Main- tained SPDT	with boot seals on roller arm and plunger		BAF1-3RNX2-RH	
Left	D	Yes	Main- tained SPDT	with boot seals on roller arm and plunger		BAF1-3RNX2-LH	
Right	D	Yes	Main- tained	with boot seals on wobble and plunger			BAF1-3CN18X1

DIMENSIONS

Figure 1. Pin Plunger: BAF1/DTF1-2RN-XX (left-hand version shown)

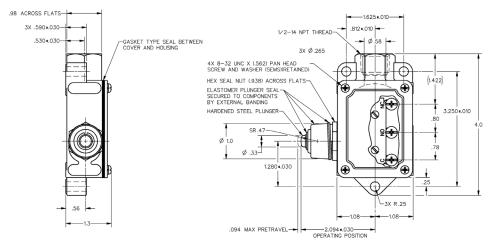


Figure 2. Roller Plunger: BAF1/DTF-2RQ9-XX (left-hand version shown)

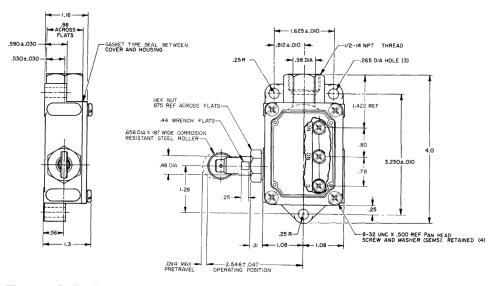


Figure 3. Roller lever: BAF1/DTF1-2RN2-XX (left-hand version shown)

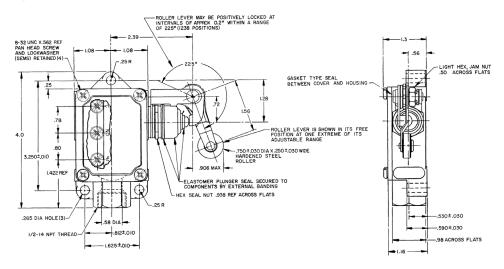


Figure 4. Maintained Contact Straight Plunger (Reset): BAF1-3RNX1

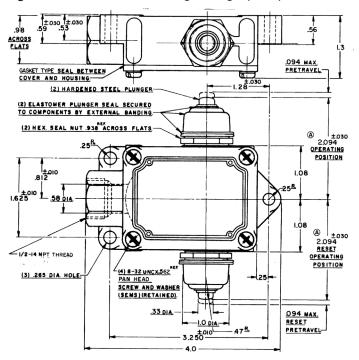


Figure 6. Flexible rod: BAF1/DTF1-2RN18-XX (left-hand version shown)

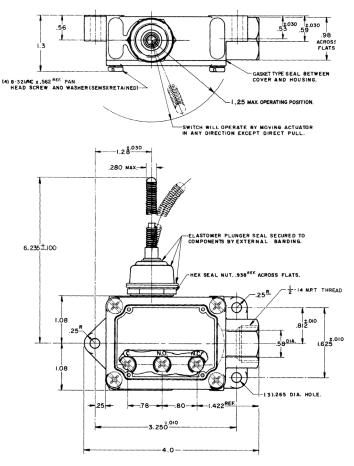


Figure 5. Roller plunger: BAF1/DTF1-2RQN8-XX (left-hand version shown)

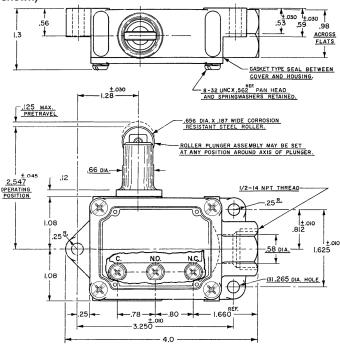


Figure 7. Coil Wobble (Reset) Switch: BAF1/DTF1-3CN18X1-XX (left-hand version shown)

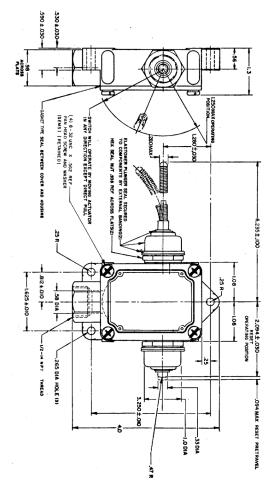


Figure 8. One-way roller lever: BAF1/DTF1-2RN28-XX (left-hand version shown)

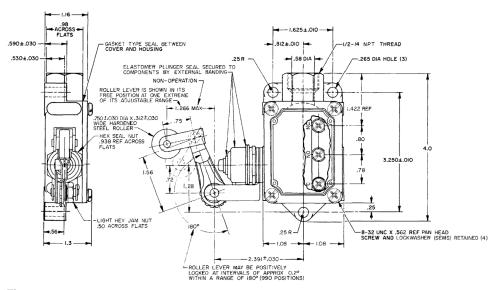


Figure 9. Manually Actuated Palm Button: BAF1/DTF1-2RN4-XX (left-hand version shown)

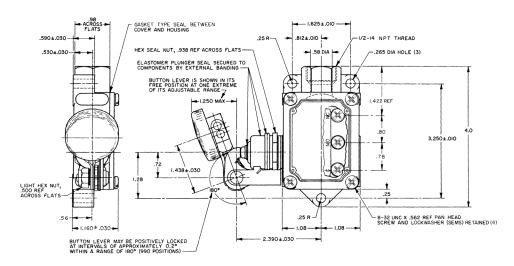
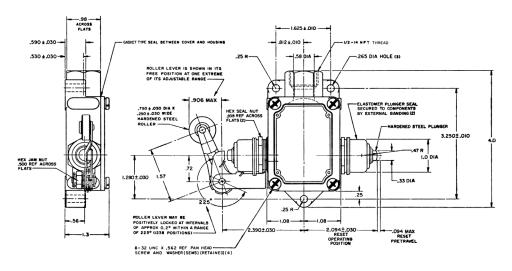
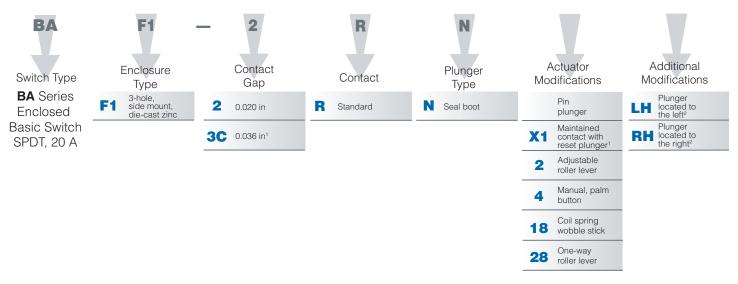


Figure 10. Roller Arm Adjustable (Reset) Switch: BAF1/DTF1-3RNX2-XX (left-hand version shown)



PRODUCT NOMENCLATURE



This Honeywell datasheet supports the following MICRO SWITCH™ E6/V6 Series Enclosed Basic Switch Listings

BAF1-2RN18-LH

BAF1-2RN18-RH

BAF1-2RN28-LH

BAF1-2RN28-RH

BAF1-2RN2-LH

BAF1-2RN2-RH

BAF1-2RN4-LH

BAF1-2RN4-RH

BAF1-2RN-LH

BAF1-2RN-RH

BAF1-2RQ3-LH

BAF1-2RQ9-LH

BAF1-2RQ9-RH

BAF1-2RQN8-LH

BAF1-2RQN8-RH

BAF1-3CN18X1

BAF1-3CNX1

BAF1-3RN2X-LH

BAF1-3RN2X-RH

BAF1-3RNX1

DTF2-2RN2-LH

DTF2-2RN2-RH

DTF2-2RN-LH

DTF2-2RN-RH

DTF2-2RQ9-LH DTF2-2RQ9-RH

DIFZ-ZNQ9-NN

DTF2-2RQN8-LH DTF2-2RQN8-RH

High Capacity Enclosed Switches

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

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

A WARNING

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- The information presented in this datasheet is for reference only. DO NOT USE this document as product installation information.
- 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.

A 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.

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