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

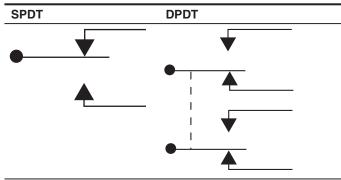
- Packaging equipment
- Special machinery
- Agricultural machinery
- Conveyors
- Overhead cranes and hoists

MICRO SWITCH[™] BAF/DTF Series

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	ALLS 2004 400 VAC WATS 2004 400 VAC WATS 2004 400 VAC WATS 2004 400 VAC WATS 2004 400 VAC WICKON SWITCH REE PORT, ILLINOIS, U.S.A. BALLS 2014 LEI WALLS 2014 LEI WALL				
			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]	_	
Electric Rating	Seal boot	Switching	Options				
D	Yes	SPDT		BAF1-2RN-RH			
D	Yes	SPDT		BAF1-2RN-LH			
В	Yes	DPDT			DTF2-2RN-RH		
В	Yes	DPDT			DTF2-2RN-LH		
D	Yes	Main- tained SPDT	with boot seal on both top and bottom plungers			BAF1-3RNX1	

Actuator

Position

Right

Left

Right Left

Right

				Roller Plunger			
Description			Description				
			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]
Operatin		Operating force	11,1 N [2.5 lb]		35,6 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]	
Electric Rating	Seal boot	Switching	Options				
D	No	SPDT	field adjustable 360° horizontally	BAF1-2RQ9-RH			
D	No	SPDT	field adjustable 360° horizontally	BAF1-2RQ9-LH			
D	No	DPDT	field adjustable 360° horizontally		DTF2-2RQ9-RH		
D	No	DPDT	field adjustable 360° horizontally		DTF2-2RQ9-LH		
D	No	SPDT	has o-ring actuator seal; field adjustable 360° horizontally			BAF1-2RQN8-RH	
D	No	SPDT	has o-ring actuator seal; field adjustable 360° horizontally			BAF1-2RQN8-LH	
D	No	DPDT	has o-ring actuator seal; field adjustable 360° horizontally				DTF2-2RQN8-RH
D	No	DPDT	has o-ring actuator seal; field adjustable 360° horizontally				DTF2-2RQN8-LH

Actuator Position

Right

Left

Right

Left

Right

Left

Right

Left

Description		Roller	Roller Lever		Flexible Rod		
		Description	AV CONTCH				
			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	_	_	_	_
Electric Rating	Seal boot	Switching	Options				
D	Yes	SPDT	field adjustable 360° horizontally and 225° vertically	BAF1-2RN2-RH			
D	Yes	SPDT	field adjustable 360° horizontally and 225° vertically	BAF1-2RN2-LH			
D	Yes	DPDT	field adjustable 360° horizontally and 225° vertically		DTF2-2RN2-RH		
D	Yes	DPDT	field adjustable 360° horizontally and 225° vertically		DTF2-2RN2-LH		
D	Yes	SPDT	field adjustable 360° horizontally and 180° vertically			BAF1-2RN28-RH	
D	Yes	SPDT	field adjustable 360° horizontally and 180° vertically			BAF1-2RN28-LH	
D	Yes	SPDT	operates from any direction, except direct pull				BAF1-2RN18-RH
D	Yes	SPDT	operates from any direction, except direct pull				BAF1-2RN18-LH

Actuator

Position

Right

Left

Right

Left

Right

Left

Right

Left

				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]	-
Electric Rating	Seal boot	Switching	Options			
D	Yes	SPDT	field adjustable 360° horizontally and 180° vertically	BAF1-2RN4-RH		
D	Yes	SPDT	field adjustable 360° horizontally and 180° vertically	BAF1-2RN4-LH		
D	Yes	Main- tained SPDT	with boot seals on roller arm and plunger		BAF1-3RNX2-RH	
D	Yes	Main- tained SPDT	with boot seals on roller arm and plunger		BAF1-3RNX2-LH	
D	Yes	Main- tained SPDT	with boot seals on wobble and plunger			BAF1-3CN18X1

Actuator Position

Right

Left

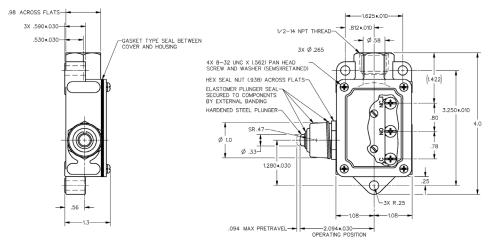
Right

Left

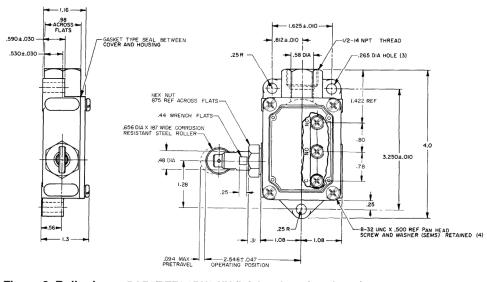
Right

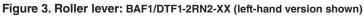
DIMENSIONS

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









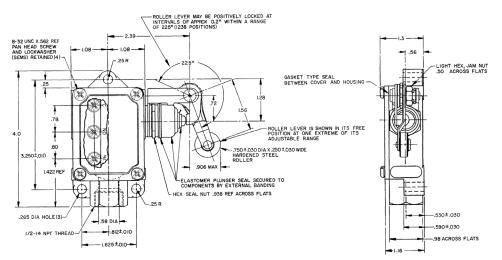


Figure 4. Maintained Contact Straight Plunger (Reset): BAF1-3RNX1

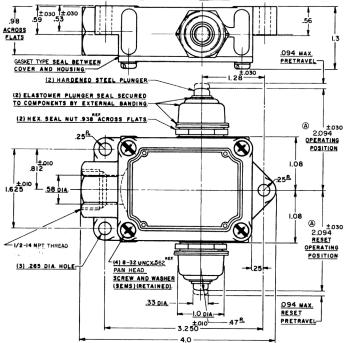
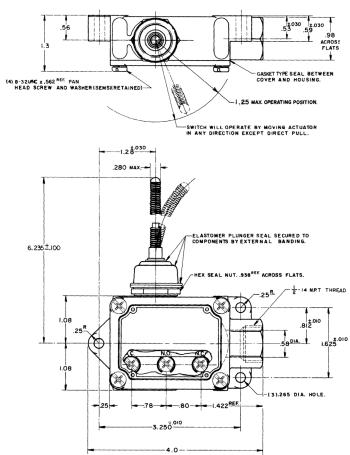
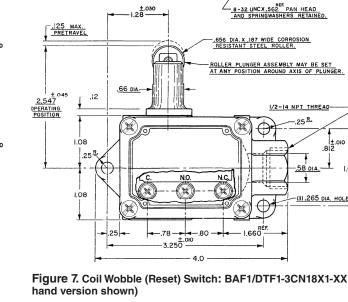


Figure 6. Flexible rod: BAF1/DTF1-2RN18-XX (left-hand version shown)





56

1.3



.59 .5^{±.030}

GASKET TYPE SEAL BETWEEN COVER AND HOUSING.

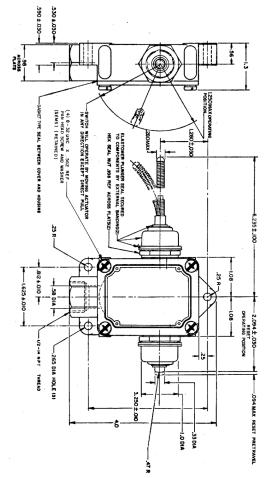
98

ACROSS

ŧ

1.625

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



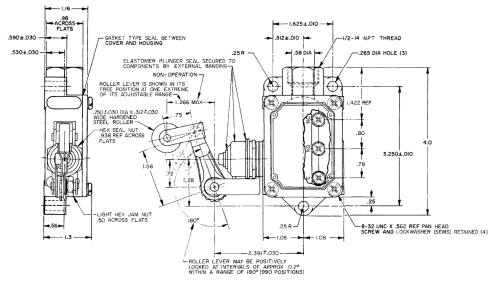
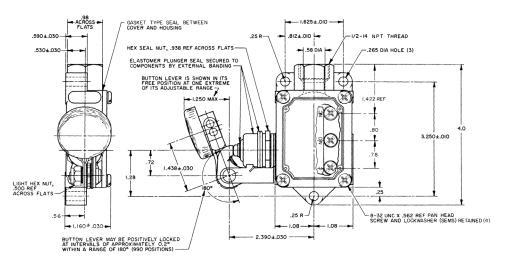
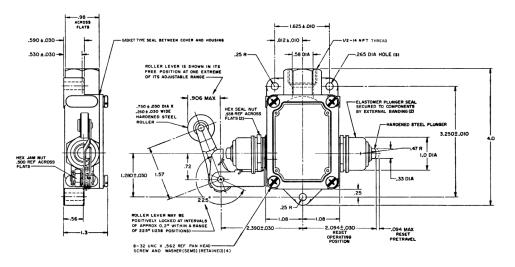


Figure 8. One-way roller lever: BAF1/DTF1-2RN28-XX (left-hand version shown)

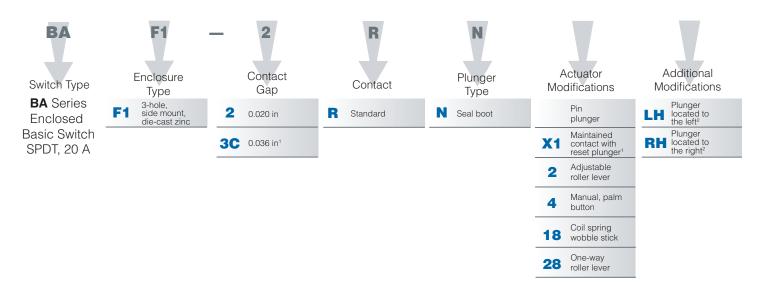








PRODUCT NOMENCLATURE



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.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer 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 printing. However, we assume no responsibility for its use.

MISUSE OF DOCUMENTATION

- 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.

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.

Find out more

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office. To learn more about Honeywell's sensing and control products, call **+1-815-235-6847/ 1-800-537-6945**, visit **sensing.honeywell.com,** or e-mail inquiries to **info.sc@honeywell.com**

Sensing and Control Honeywell 1985 Douglas Drive North Golden Valley, MN 55422 USA **honeywell.com**



002384-2-EN IL50 GLO May 2015 Copyright © 2015 Honeywell International Inc. All rights reserved.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Basic / Snap Action Switches category:

Click to view products by Honeywell manufacturer:

Other Similar products are found below :

 83228001
 01.098.1358.1
 602EN1-6B
 602EN532
 602EN535-RB
 602HE5-RB1
 604HE162
 604HE223-6B
 624HE17-RB
 6HM89
 6PA78-JM

 6SE1
 6SX1-H58
 70500840
 MBD5B1
 MBH2731
 73-316-0012
 79211759
 79211923
 79218589
 7AS12
 ML-1155
 ML-1376
 831010C3.0

 831060C3.TL
 831090C2.EL
 83131904
 84212012
 8AS239
 8HM73-3
 903VB1-PG
 914CE1-6G
 PL-100
 11SM1077-H4
 11SM1077-H58

 11SM1-TN107
 11SM405
 11SM703-T
 11SM8423-H2
 11SX37-T
 11SX48-H58
 11SX55-H58
 11SM2442-T
 11SM76-T
 11SM77-H58

 11SM77-T
 11SM863-T
 11SM866
 11SX47-H58
 A7CN-1M-1-LEFT