Heavy-Duty Plug-In Switches

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Cutler-Hammer® E50 Modular Plug-In Limit Switch Components from Eaton's electrical business are the industry standard with versatility of design and high reliability for low maintenance, installation and inventory costs. Standard Viton® gaskets. seals and boots and a zinc die cast enclosure provide exceptional chemical resistance to the common coolants, cleansing agents, and hydraulic fluids found in machine tool, automotive, waste water treatment and other heavy-duty industrial applications. Mounting dimensions accommodate both U.S. and DIN standards for easy retrofit installations. Super bright 24 - 120V AC/DC LED indicating light versions simplify setup and troubleshooting operations.

Approvals

- UL Listed
- CSA Certified
- IEC.947.5.1
- TUV E9271605E02

C € (where shown)



Unless otherwise noted, the products contained in this document are not designed or intended for use in human safety applications.

Modular Limit Switches Provide Extremely Easy Installation, High Reliability, and Low Maintenance and Inventory Costs

Available as Assembled Switches or Components



Conduit, Cable and Connector Wiring Options



Dozens of Operators to Perfectly Fit Your Application



Rotary, Top and Side Push, Wobble and Specialty Operating Heads



Single- or Double-Pole Switch Bodies with Optional Indicating Lights



A Variety of Receptacles Meet Your Wiring Needs

Product Features

- Modular, plug-in components (head, body and receptacle) provide application flexibility, reduced inventory and less downtime
- Manufactured to take the physical and environmental abuse (including cutting fluids and chemicals) of harsh industrial environments
- Chemical resistant Viton® gaskets, seals and boots are standard, and so are captive, posi-drive screws
- The switches have terminal identification on the nameplate for a visual wiring checkout without guesswork. Heads and switch bodies can be replaced without rewiring
- E50 devices can be ordered in separate components or as complete assembled switches
- 600V rating, ridge-topped contacts and wiping action assure continuity even to logic level circuits
- Keyed, four direction head positioning
- Standard 5° pre-travel and 90° total travel
- 24 120V AC/DC LED and 120V AC neon indicating lights available
- Rotary heads are field convertible CW, CCW, or both, without special tools
- Epoxy filled, pin connector or pigtail pin connector receptacles available

For Customer Service in the U.S. call **1-800-356-1243**, in Canada call **1-800-268-3578**. For Application Assistance in the U.S. and Canada call **1-800-426-9184**.

Viton® is a registered trademark of Dupont Dow Elastomers.

Model Selection — Assembled Switches — Standard

Assembled Switch		Single Pole (5 Terminal Receptacle)			Double Pole (9 Terminal Rec	eptacle)		Jane	
田村 田村 (2)	Indicating Light:	None	LED (24 – 120V AC/DC)	Neon (120V AC)	None	LED (24 – 120V AC/DC)	Neon (120V AC)	LED (24 – 120V AC/DC)	Neon (120V AC)
	Switch Body:	E50SA 1N.O1N.C.	E50SAL 1N.O1N.C.	E50SAN 1N.O1N.C.	E50SB 2N.O2N.C.	E50SBL 2N.O2N.C.	E50SBN 2N.O2N.C.	E50SCL 1N.O2N.C.	_
	Receptacle: ①	E50RA	E50RA	E50RA	E50RB	E50RB	E50RB	E50RB	E50RB
Operating Head Type		Catalog Numb	er for Assemble	ed Switches					
Side Rotary (requires an operating lever, see PG.05C.04.T.E)	Standard Spring Return — E50DR1 ③	E50AR1	E50ALR1	E50ANR1	E50BR1	E50BLR1	E50BNR1		_
see Fd.05C.04.1.E)	Low Force Spring Return — E50DL1 ③	E50AL1	E50ALL1	E50ANL1	E50BL1	E50BLL1	E50BNL1	_	_
	Maintained Two-Position — E50DM1	E50AM1	E50ALM1	E50ANM1	E50BM1	E50BLM1	E50BNM1	_	_
Side Pushbutton, Spring Return — E50DS1		E50AS1	E50ALS1	E50ANS1	E50BS1	E50BLS1	E50BNS1	E50CLS1	_
Side Pushbutton, Adjustable Spring Return — E50DS2		E50AS2 C €	E50ALS2	E50ANS2	E50BS2	E50BLS2	E50BNS2	E50BLS2	E50CNS2
Side Push Roller, Spring Return — E50DS3 ®		E50AS3	E50ALS3	E50ANS3	E50BS3	E50BLS3	E50BNS3	E50BLS3	_
Side Pushbutton, Maintained — E50DH1		E50AH1	E50ALH1	E50ANH1	E50BH1	E50BLH1	E50BNH1	E50BLH1	_
	Wiring:	Single Pole 1N Must be same		10 0 2 30 4	Double Pole 2 2N.C. Parallel Indicator light Same polarity each pole	wired	5 6 7 7 8	Double Pole 1N.O2N.C. Series wired Indicator light; Same polarity each pole	1 5 5 6 6 3 7 7 4 8 8

 $^{\scriptsize \textcircled{1}}$ Connection options (add the Code Suffix from the table below to the end of the Catalog Number):

Option	Catalog Number	Code Suffix	
Mini-Connector ®	Single Pole (5-Pin Mini-Connector)	CSMS5D5CY1602	P5
(with epoxy filled receptacle)	Double Pole (9-pin Mini-Connector)	CSMS9D9CY1602	P9
Cable Connection	8-foot cable length	_	S
(with epoxy filled receptacle)	12-foot cable length	_	S12
	20-foot cable length	_	S20
Manifold Mount (rear wiring entrance)	—	M	
20 mm Conduit Entrance	_	20	

- ² For Operating Head specifications, see **Page 5**.
- ③ CW (clockwise) and CCW (counterclockwise) operation, easily convertible to CW only or CCW only operation.
- Roller can be converted in the field between horizontal and vertical.
- 5 For a full selection of cable connectors, see PG.05.05.T.E.
- Fast turn product with typical one day lead-time to shipment.

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Model Selection — Assembled Switches — Standard (Continued)^①

Assembled Switch		Single Pole (5 Terminal Receptacle)			Double Pole (9 Receptacle)				
THE RESERVE OF THE PERSON OF T	Indicating Light:	None	LED (24 – 120V AC/DC)	Neon (120V AC)	None	LED (24 – 120V AC/DC)	Neon (120V AC)	LED (24 – 120V AC/DC)	Neon (120V AC)
9	Switch Body:	E50SA 1N.O1N.C.	E50SAL 1N.O1N.C.	E50SAN 1N.O1N.C.	E50SB 2N.O2N.C.	E50SBL 2N.O2N.C.	E50SBN 2N.O2N.C.	E50SCL 1N.O2N.C.	_
	Receptacle: ①	E50RA	E50RA	E50RA	E50RB	E50RB	E50RB	E50RB	E50RB
Operating Head Type	2)	<u> </u>	er for Assembl			_		_	
Top Pushbutton, Spring Return — E50DT1	The state of the s	E50AT1	E50ALT1	E50ANT1	E50BT1	E50BLT1	E50BNT1	E50CLT1	E50BNT1
Top Pushbutton, Adjustable Spring Return — E50DT2		E50AT2	E50ALT2	E50ANT2	E50BT2	E50BLT2	E50BNT2	_	_
Top Push Roller, Spring Return — E50DT3 ③		E50AT3	E50ALT3	E50ANT3	E50BT3	E50BLT3	E50BNT3		_
Wobble Head, Spring Return (requires a wobble operator, see PG.05C.04.T.E)	Standard Duty — E50DW1	E50AW1	E50ALW1	E50ANW1	E50BW1	E50BLW1	E50BNW1	EB50BLW1	_
	Heavy-Duty High Strength Steel — E50DW2	E50AW2	E50ALW2	E50ANW2	E50BW2	E50BLW2	E50BNW2	E50CLW2	E50BNW2
	Wiring:	Single Pole 1N.O1N.C. Must be same polarity	10-30-	2 Q 4	Double Pole 2N.O2N.C. Parallel wire Indicator ligh Same polarit each pole	it 1°	5 5 6 6 7 8	Double Pole 1N.O 2N.C. Series wired Indicator light; Same polarity each pole	5 2 3 3 7 4

 $^{\scriptsize \textcircled{1}}$ Connection options (add the Code Suffix from the table below to the end of the Catalog Number):

Option		Catalog Number	Code Suffix
Mini-Connector 4	Single Pole (5-Pin Mini-Connector)	CSMS5D5CY1602	P5
(with epoxy filled receptacle)	Double Pole (9-pin Mini-Connector)	CSMS9D9CY1602	P9
Cable Connection	8-foot cable length	_	S
(with epoxy filled receptacle)	12-foot cable length	_	S12
	20-foot cable length	_	S20
Manifold Mount (rear wiring entrance)	_	М	
20 mm Conduit Entrance		_	20

- ② For Operating Head specifications, see Page 5.
- 3 Roller can be converted in the field between horizontal and vertical.
- ④ For a full selection of cable connectors, see PG.05.05.T.E.
- Fast turn product with typical one day lead-time to shipment.

Limit Switches Heavy-Duty Plug-In Switches

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${\bf Model\ Selection-Assembled\ Switches-Special\ Purpose}$

	Operating Data — Nominal	Catalog Numb	er		Circuit Diagram		
		Assembled Switch	Switch Body Only	Receptacle Only	Operating Head Only		
Neutral Position	5° Travel	E50NN1	E50SN	E50RB	E50DN1	Same Polarity	
(requires an operating lever, see PG.05C.04.T.E)	15° Travel	E50NN2	E50SN	E50RB	E50DN2	Each Pole	
level, see I d. ss. s. s	Travel to Operate Contacts: Travel to Reset Contacts: Total Travel: Force to Operate Contacts: Minimum Return Force: Operating Temperature:	5° or 15° (dep 2° 90° 1.8 in-lbs 2.5 in-oz 14° to 200°F (oending upon n -10° to 94°C)	nodel selected	1 CCW 5 6 6 7 7 4 8		
Two Step CW, CCW or both,		E50TD1	E50ST	E50RB	E50DD1	Same Polarity	
Convertible (requires an operating lever, see PG.05C.04.T.E)	Travel to Operate Contacts: Travel to Reset Contacts: Total Travel: Force to Operate Contacts: Minimum Return Force: Operating Temperature:		2nd Step 20° 14° to 250°F (-1 /: 14° to 200°F (1 st 2nd 5 6 3 7 4 8 8		
Gravity Return	without Indicating Light	E50GG1	E50SG	E50RA	E50DG1	Must Be Same	
(requires E50KL220, E50KL226 or equivalent	with LED Indicating Light (24-120V AC/DC)	E50GLG1	E50SGL			Polarity	
operating lever, see	with Neon Indicating Light (120V AC)	E50GNG1	E50SGN				
PG.05C.04.T.E)	Travel to Operate Contacts: Travel to Reset Contacts: Total Travel: Force to Operate Contacts: Minimum Return Force: Operating Temperature:	10° to 170° 8° 360° 3.0 in-oz Gravity 14° to 200°F (-10° to 94°C)			10 0 2	

Fast turn product with typical one day lead-time to shipment.

Model Selection — Operating Heads

Description		Travel to	Travel to	Total	Force to		Operating Temperat	Catalog	
		Operate Reset Contacts		Travel	/el Operate Contacts	Return Force	Without Cable	With Pre-wired Cable	Number
Side Rotary (requires an operating lever, see PG.05C.04.T.E)	Standard Spring Return ②	5°	2°	90°	3 in-lbs	4.5 in-oz	10° to 200°F (-12° to 94°C) ③	10° to 200°F (-12° to 94°C) ③	E50DR1
	Low ^② Temperature Spring Return	5°	2°	90°	3 in-lbs	4.5 in-oz	-40° to 175°F (-40° to 79°C)	-31° to 175°F (-34° to 79°C)	E50DR19
	Low Force Spring Return ②	15°	6°	90°	1.5 in-lbs	2.5 in-oz	10° to 200°F (-12° to 94°C) ③	10° to 200°F (-12° to 94°C) ③	E50DL1
	Maintained Two-Position	50°	50°	90°	3 in-lbs	_	14° to 200°F (-10° to 94°C)	14° to 200°F (-10° to 94°C)	E50DM1
Side Pushbutton, Spring Return		0.065 inch	0.030 inch	0.250 inch	4 lbs	8 oz	14° to 200°F (-10° to 94°C)	14° to 200°F (-10° to 94°C)	E50DS1
Side Pushbutton, Adjustable Spring Aeturn	P	0.065 inch	0.030 inch	0.250 inch	4 lbs	8 oz	14° to 200°F (-10° to 94°C)	14° to 200°F (-10° to 94°C)	E50DS2
Side Push Roller, Spring Return ④		0.065 inch	0.030 inch	0.250 inch	4 lbs	8 oz	14° to 200°F (-10° to 94°C)	14° to 200°F (-10° to 94°C)	E50DS3 5
a									E50DS4 ⑤
Side Pushbutton, Maintained	e	0.200 inch	0.130 inch	0.320 inch	5 lbs	5 lbs	14° to 200°F (-10° to 94°C)	14° to 200°F (-10° to 94°C)	E50DH1
Fop Pushbutton, Spring Return		0.040 inch	0.020 inch	0.280 inch	4 lbs	8 oz	14° to 250°F (-10° to 121°C)	14° to 221°F (-10° to 105°C)	E50DT1
Top Pushbutton, Adjustable Spring Return		0.040 inch	0.020 inch	0.280 inch	4 lbs	8 oz	14° to 250°F (-10° to 121°C)	14° to 221°F (-10° to 105°C)	E50DT2
Top Push Roller, Spring Return		0.040 inch	0.020 inch	0.280 inch	4 lbs	8 oz	14° to 250°F (-10° to 121°C)	14° to 221°F (-10° to 105°C)	E50DT3
Wobble Head, Spring Return (requires a wobble operator, see PG.05C.04.T.E)	Standard Duty	10°	6°	15°	2 in-lbs	2.4 in-oz	14° to 250°F (-10° to 121°C)	14° to 221°F (-10° to 105°C)	E50DW1
	Heavy-Duty High Strength Steel	10°	6°	15°	2 in-lbs	2.4 in-oz	14° to 250°F (-10° to 121°C)	14° to 221°F (-10° to 105°C)	E50DW2

- ① Temperature ranges below +32°F (0°C) are based on absence of freezing moisture or water.
- ${\small @}~{\sf CW~(clockwise)~and~CCW~(counterclockwise)~operation, easily convertible~to~CW~only~or~CCW~only~operation.}\\$
- (9) For CW and CCW operation. For CW only or CCW only operation, high temperature limit increases to 250°F (121°C) without cable, and 221°F (105°C) with pre-wired cable.
- $\ensuremath{\overset{\cdot}{\cdot}}$ Roller can be converted in the field between horizontal and vertical.
- ® Roller shaft is 0.38 inches (9.5 mm) longer on E50DS4, see dimensions on Page 11.
- Fast turn product with typical one day lead-time to shipment.

Model Selection — Switch Bodies

	Circuit	Switch Body Construction	Catalog Number
Switch Bodies	Single Pole 1N.O1N.C. Must Be Same Polarity ①	Without Indicating Light	E50SA C E
	10 02	With LED Indicating Light 24 – 120V AC/DC	E50SAL
THE COLUMN TWO IS NOT THE PARTY OF THE PARTY		With Neon Indicating Light 120V AC	E50SAN
	Double Pole 2N.O2N.C. Parallel Wired Ind. Light Same Polarity Each Pole	Without Indicating Light	E50SB
	10,5	With LED Indicating Light 24 – 120V AC/DC	E50SBL
	30 7 40 8	With Neon Indicating Light 120V AC	E50SBN
20 Tab	Double Pole 2N.C1N.O. Series Wired Ind. Light Same Polarity Each Pole ①	With LED Indicating Light 24 – 120V AC/DC	E50SCL
	10005		
	3 7 8 8		

① Indicating lights are supplied from the factory wired as shown. However, they can easily be re-connected to terminals 1 and 2 if necessary (SPDT).

Fast turn product with typical one day lead-time to shipment.

Model Selection — Receptacles

Model Selection — Rec		I	10.11	10	10.1.1.1	lue :
	Description	Poles	Conduit Entrance	Cable Length	Catalog Number	Wiring
Surface Mount	Conduit entrance, front or rear mounting	Single Pole (5 Terminal)	1/2 NPT	_	E50RA	1
	mounting	(5 Terminal)	20 mm	_	E50RA20	
7.3		Double Pole	1/2 NPT	_	E50RB	①
		(9 Terminal)	3/4 NPT	<u> </u>	E50RB34	
100			20 mm	 	E50RB20	1
Manifold Mount	Rear wiring entrance instead of	Single Pole	_	_	E50RAM	1
2. 2	conduit hole, gasket on back for oil tightness	(5 Terminal)				
		Double Pole (9 Terminal)			E50RBM	0
Mini-Connector	Epoxy filled receptacle with pre- wired Mini-Connector. (The -W version is a wiring scheme typically used in automotive applications.)	Single Pole (5 Terminal)	5-pin Mini- Connector	_	E50RAP5 ⊕	RED 1 2 ORANGE WHITE 3 4 BLACK 1 0 5 2 0 4 GREEN GND
					E50RAP5-W 🕄	WHITE 1 2 BLACK RED 3 4 ORANGE 3 GREEN GND
		Double Pole (9 Terminal)	9-pin Mini- Connector	_	E50RBP9 €	GRIVBLK 1 S WHT/BLK GRANGE 3 7 BLACK BLUE 4 8 WHITE TO TO 6 900 GREEN GND
Pre-wired Cable	Epoxy filled receptacle with pre- wired 16 gauge, yellow jacketed,	Single Pole (5 Terminal)	1/2 NPT	8-foot	E50RAS	② WHITE 1 2 BLACK
	type SOOW-A cable. Cable enters	(2 ieiiilliai)		12-foot	E50RAS12	RED 3 ORANGE
	through hole threaded for conduit		20 mm	20-foot	E50RAS20 E50RA20S	1 4
a de la constant			20 mm	8-foot 12-foot	E50RA20S12	GREEN
A SA				20-foot	E50RA20S20	- GND
		Double Pole	1/2 NPT	8-foot	E50RBS	②
13 1		(9 Terminal)	,	12-foot	E50RBS12	WHITE OF BROWN
				20-foot	E50RBS20	BLACK O PINK
			20 mm	8-foot	E50RB20S	ORANGE OF BLUE
				12-foot	E50RB20S12	
				20-foot	E50RB20S20	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
						GND =

① See Model Selection — Switch Bodies for wiring information.

See listing of compatible connector cables on Page 8.

② The wire colors referenced on these diagrams are those internal to the switch itself.

Fast turn product with typical one day lead-time to shipment.

Model Selection — Compatible Connector Cables ①

	Voltage Style	Number of Pins	Gauge	Length	Catalog Number	Pin Configuration/Wire Colors (Face View Female Shown)
Standard Cables — Mini Style						
Mini Style Straight Female	_	5-pin	16 AWG	6 feet (2m)	CSMS5D5CY1602	1-White 2-Red 3-Green 4-Orange 5-Black
Current Rating @ 600V 5-pin: 8A 9-pin: 7A	_	9-pin	16 AWG	12 feet (4m)	CSMS9D9CY1602	1-Orange 2-Blue 3-Red/Black 4-Green/Black 5-White 6-Red 7-Green 8-White/Black 9-Black

① For a full selection of connector cables, see PG.05.05.T.E.

Model Selection — Accessories

Approximate	e Dimensions in mm [Inches]	Description	Catalog Number
Adapter Plate	E50 ATTACHING HOLES (2) 25.4 [1.00] THICK 59.5	Allows E50 to replace Eaton's Cutler-Hammer 10316 Type LP Surface Mounting Plug-In Limit Switch	E50KH1
	2 HOLES [2.34] 2 HOLES [2.9.4] [0.20] [29.4]	Allows E50 to replace Eaton's Cutler-Hammer 10316 Type LP Manifold Mounting Plug-In Limit Switch	E50KH1M
Adapter Plate	12.7 HOLES HOLES	Allows E50 to replace Square D Type AW Surface Mounting Non Plug-In Standard Box Limit Switch	E50KH7
Adapter Plate	57 [2.25] 13.1 [0.515] 118 [4.62] 107 [4.22]	Allows E50 to replace National Acme, Type D-1200M, Style 2 Mounting. Denison LoxSwitch, Model L-100W, Style 2 Mounting. Square D 9007 Type T, Style B Mounting. (Adapter plate is 1/8 inch thick, with 1/4 inch mounting holes.)	E50KH4 ①
Adapter Plate	71.4 [2.25] [2.81] 16.7 [0.66] 74.6 [2.94] 622 [2.44]	Allows E50 to replace National Acme, Type D- 1200M, Style 1 Mounting. Denison LoxSwitch, Model L-100W, Style 1 Mounting. Square D 9007 Type T, Style C Mounting. (Adapter plate is 1/8 inch thick, with 1/4 inch mounting holes.)	E50KH5 ①

① Limit Switch not included.

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Model Selection — **Accessories (Continued)**

Approximate	Dimensions in mm [Inches]	Description	Catalog Number
Adapter Plate	0.52 DIA. [0.204] 2 HOLES E50 MTG. HOLES 3.00 [0.12] THICK 10-32 UNC-2B 2 HOLES [1.41]	Allows E50 to replace Eaton's Cutler-Hammer 10316 Type LT Non Plug-In 2-Pole Limit Switch	E50KH2
Adapter Plate	39 (1.54) - 29.5 (1.160) - (1.91) 5.2 [0.204] - (2.40LES) - (3.00) - (3.00) - (3.00) - (4.8) (0.19) - (1.160) - (1.1	Allows E50 to replace Allen-Bradley 802M Sealed Limit Switch	E50KH10
Adjustable Mounting Plate	95 [1.00] ADJ. 19 [0.75] 79 (3.10] 79.4 [3.13] ADJ.	This is a mounting plate only 5/16 inch thick and includes the proper mounting bolts and nuts. The slots in the plate allow a maximum horizontal adjustment of 1 inch and vertical adjustment of 1-1/4 inches	E50KH3 ①
Conduit Sealing Nut		1/2 inch oiltight	E50KH6

① Limit Switch not included.

Fast turn product with typical one day lead-time to shipment.

Cutler-Hammer

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Specifications

Description	Specification
Environmental Ratings	NEMA 1, 3, 3S, 4, 4X, 6, 6P, 13, IP67
Material of Construction	Zinc die cast
Switch Gasket Material	Viton ®
Universal U.S./DIN Mounting Dimensions	1.16 in (30 mm) x 2.34 in (60 mm)
Conduit Entrance	1/2 in NPT or 20 mm threading
Contact Ratings	See below
Contact Operation	Snap action over center mechanism
Contact Material	Fine silver
Maximum Frequency of Operation	8000 operations per hour
Mechanical Life: Side Rotary Side or Top Push	13,000,000 operations minimum 10,000,000 operations minimum
Electrical Life: Single Pole Double Pole	1,000,000 operations typical at full load 100,000 operations typical at full load
Ambient Temperature Range — Standard Standard without Cable Standard with Cable Low Temperature without Cable Low Temperature with Cable	14° to 250°F (-10° to 121°C) 14° to 221°F (-10° to 105°C) -40° to 250°F (-40° to 121°C) -40° to 221°F (-40° to 105°C)
Repeat Accuracy — Standard Side Operated Top Operated Side Rotary	Within 0.0012 in Within 0.0003 in Within 0.0014 in
Torque Requirements: Switch Body Screws Operating Head Screws	25 – 30 lb-in 14 – 18 lb-in
Wire Size	Will accept AWG #22 – #12, single or stranded wire

Electrical Data — Maximum Contact Ratings (Same polarity each pole)

AC Volts	Current, Amperes		Voltamperes		DC Volts	Current, Amperes		
	Make	Break	Cont. 1	Make	Break		Max. Make or Break	Cont. 1

All Switches Except Gravity Return and Indicating Light Versions

NEMA A600 Rating					NEMA R300				
120 240 480 600	60 30 15 12	6 3 1.5 1.2	10	7200	720	125 250	0.22 0.11	1.0 1.0	

Switches with Indicating Lights (LED or Neon)

NEMA A150 Rating					NEMA R150			
120	60	6	10	7200	720	125	0.22	1.0

Gravity Return Switches — Maximum Contact Ratings

NEMA 6600 Rating — Contacts on Same Polarity		_		
120 30 3 5 3600 240 15 1.5 3600 480 7.5 0.75 0.60	360	_	_	_

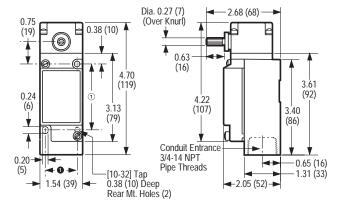
 $[\]ensuremath{\mathfrak{D}}$ Thermal rating. Valid only if switch does not have to make or break.

Approximate Dimensions in Inches (mm)

Standard

0.70 (18) Shaft Dia. 0.28 (7) 2.46 (63) 0.63 (16) 0.75 Dia. 0.20 (5) Front Mtg. Hole [10-32] Tap 20.38 (10) Deep Rear Mt. Holes (2) 0.24 3.13 (6) (79)Dia. 0.63 (16) 0.50 (13) Pipe Tap Hole for 0.20 (5) 0.65 Manifold Mtg (16) **1.78 (45) →** 1.54 (39)

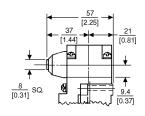
E50SB34



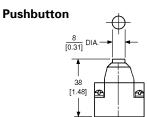
① Can accommodate both U.S., 1.16 (29.4) x 2.34 (59.5) and DIN, 1.18 (30) x 3.26 (60), mounting dimensions.

Side Push Operators in mm [Inches]

Pushbutton



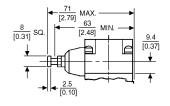
Top Push Operators in mm [Inches]



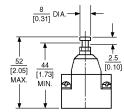
Wobble Operators

See Operators, PG.05C.04.T.E

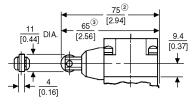
Adjustable Pushbutton



Adjustable Pushbutton

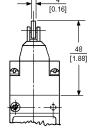


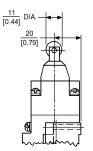
Roller



- ² For E50DS4.
- 3 For E50DS3.

Roller





Maintained Pushbutton

