



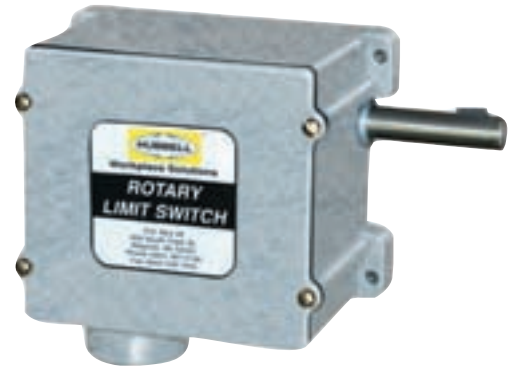
Workplace Solutions

Furnas Brand Series 54 Rotary Limit Switches

Limit the travel of electrically operated doors, conveyors, hoists, machine tool work tables and similar devices. Equipment having rotating mechanisms, or linear motion which can be translated into rotational motion, can be controlled by these versatile switches. Furnas Series 54 switches can be mounted in any position and are easy to wire and adjust.

Switches Feature

- Four Gear Ratios
- Standard, Long Dwell or Fine Adjustment Cams
- Right or Left Hand Shaft
- Easy to Wire and Adjust
- Mount in Any Position
- Rugged Die-cast Aluminum Housing
- Available for NEMA 1, NEMA 4, and NEMA 12 Applications
- Multi-use Shaft...Attach Drive Sprocket using Woodruff Key, Pin or Setscrew



Application

Furnas Series 54 switches are designed to serve as pilot controls for magnetic reversing starters and contactors which in turn make and break full voltage between line and load. Contacts in the switch are operated when the external shaft is rotated. For the switch to perform a pilot control function, the contact must be wired in series with the coil circuit of a magnetic reversing starter or contactor.

The shaft may rotate in either direction. When tripped, if rotation direction is reversed, the contacts will reset in 1/4 to 1/2 turns, depending on shaft-to-cam ratio. Switches with Long Dwell Cams are available. These cams provides for the contacts to be actuated for a longer period of time as might be required in hoist or similar applications.

Fine adjustment cams are also available. This feature increases accuracy in setting the number of turns to cause the contact to operate.

MODELS—Series 54

Model numbers are for RIGHT HAND SHAFT. For left hand shaft add **L** to model number.

Gear Ratio	Turns of Drive Shaft To Trip Contacts				Contact Blocks	Circuits		NEMA 1 & 12 Industrial Use Model No.	NEMA 4 Watertight Model No.
	Max.	Min.	Overtravel	Reset		NO	NC		
Standard Cams									
18 to 1	16	1	1.75	0.25	2	2	2	54BB23FE	54BB23EE
					3	3	3	54BB33FE	54BB33EE
					4	4	4	54BB43FE	54BB43EE
36 to 1	32	1	3.5	0.5	2	2	2	54BB23FB	54BB23EB
					3	3	3	54BB33FB	54BB33EB
					4	4	4	54BB43FB	54BB43EB
72 to 1	64	1.5	7.5	1	2	2	2	54BB23FC	54BB23EC
					3	3	3	54BB33FC	54BB33EC
					4	4	4	54BB43FC	54BB43EC
108 to 1	96	2	11	1.5	2	2	2	54BB23FD	54BB23ED
					3	3	3	54BB33FD	54BB33ED
					4	4	4	54BB43FD	54BB43ED
Long Dwell Cams									
18 to 1	15	1	2.5	0.5	2	2	2	54EB23FE	54EB23EE
					3	3	3	54EB33FE	54EB33EE
					4	4	4	54EB43FE	54EB43EE
36 to 1	30	1.5	5	1	2	2	2	54EB23FB	54EB23EB
					3	3	3	54EB33FB	54EB33EB
					4	4	4	54EB43FB	54EB43EB
72 to 1	60	2	10	1.5	2	2	2	54EB23FC	54EB23EC
					3	3	3	54EB33FC	54EB33EC
					4	4	4	54EB43FC	54EB43EC
108 to 1	90	3	15	3	2	2	2	54EB23FD	54EB23ED
					3	3	3	54EB33FD	54EB33ED
					4	4	4	54EB43FD	54EB43ED
Fine Adjustment									
18 to 1	16	1	1.75	0.25	2	2	2	54BB73FE	54BB73EE
36 to 1	32	1	3.5	0.5	2	2	2	54BB73FB	54BB73EB
72 to 1	64	1.5	7.5	1	2	2	2	54BB73FC	54BB73EC
108 to 1	96	2	11	1.5	2	2	2	54BB73FD	54BB73ED

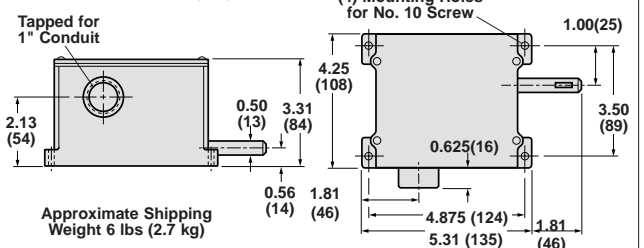
Field Modifications	
Contact Block Kit (1 NO 1 NC)	Cat No.
Standard Cam	54BBGB
Long Dwell Cam	54EBGB
Contact Block Kit (2 NO 2 NC)	
Standard Cam	54BBGD
Long Dwell Cam	54EBGD
Accessories	
Adjustment Tool	D27760001

Kits include switch block, cam and mounting hardware

Operating Temperature Range:
-40°F (-40°C) to +185°F (+85°C)

Contact Block Specifications
15 Amp 120, 240, 480 or 600 VAC.
1/2 H.P. 120 VAC, 1.0 H.P. 240 VAC
0.8 Amp 115 VDC, 0.4 Amp 230 VDC
Pilot Duty 600 VAC Max.

Dimensions—Inches (mm)



Approximate Shipping Weight 6 lbs (2.7 kg)