



### 1LS1



*Actual product appearance may vary.*

**Enclosed Switches Series LS: Side Rotary with 1.5" Fixed Length Lever; Steel Roller; 1NC 1NO DPDT Snap Action, Double Break; 0.5 in - 14NPT conduit; Compact/Non-Plug-in**

#### Features

- Mode of operation is field adjustable
- NEMA 1, 3, 4, 6, and 13
- Wide choice of heads and actuators
- Variety of operating characteristics
- Captive screws
- UL and CSA approved parts available

#### Potential Applications

- Machine tools
- Conveyors
- Material handling
- Metal fabrication equipment
- Lift trucks

#### Description

MICRO SWITCH™ compact LS and plug-in 200LS limit switches have a long record of successful performance in industrial applications. The MICRO SWITCH™ LS fits in many places too small for any other fully adjustable limit switch. The MICRO SWITCH™ 200LS switches are the original plug-in concept for reducing downtime by making changeover simple and fast.

Product Specifications	
Availability	Global
Operating Force (O.F.)	0.51 N m max. [4.5 in lb max.]
Full Overtravel Force	8.13 N m max. [6 in lb max.]
Release Force (R.F.)	0.08 N m min. [0.75 in lb min.]
Pretravel (P.T.)	20° max.
Overtravel (O.T.)	30° min.
Differential Travel (D.T.)	12° max.
Product Type	MICRO SWITCH™ Compact Limit Switches
Actuator	Side Rotary
Lever Style	1.5 in Fixed Length Lever with front mounted Steel Roller (.75 in dia. x .25 in wide)

Circuitry	1NC 1NO SPDT Snap Action, Double-Break
Ampere Rating	10 A Ind./0.8 A Res./0.4 Res./0.1 A Res.
Supply Voltage	120 Vac. 240 Vac. 480 Vac/115 Vdc/230 Vdc/550 Vdc
Housing Material	Zinc Die-Cast
Termination Type	0.5 in - 14NPT conduit
Housing Type	Compact / Non Plug-In
Series Name	LS
Sealing	NEMA 1, 3, 4, 6, 13
Operating Temperature Range	-29 °C to 71 °C [-20 °F to 160 °F]
UNSPSC Code	302119
UNSPSC Commodity	302119 Switches and controls and relays
Sealed	Industrial

**MICRO SWITCH**  
FREMONT, ILLINOIS, U.S.A.  
A DIVISION OF HONEYWELL  
PED MFG CODE 81889

**SWITCH - ENCLOSED**

CATALOG LISTING  
**1LS1**

CATALOG LISTING  
**1LS1**  
PAGE 1 OF 1

OPERATING HEAD MOUNTS IN ANY OF FOUR POSITIONS

CAPTIVE COVER SCREW (3)

8-32 UNC PAN HEAD SCREW AND CLAMPING PRESSURE PLATE (4)

.192 MIN DIA MTG HOLE FOR NO 10 SCREW (4)

1/4-20 UNC MOD THREAD X .562 MIN DEPTH (4)

CAPTIVE HEAD SCREW (4)

1/2-14 NPT THREAD

CAM TRACKING VIEW

CIRCUIT DIAGRAM

OPERATING POSITION

FREE POSITION

OPERATING POSITION

OVERTRAVEL

PRETRAVEL

OVERTRAVEL

PRETRAVEL

DIFFERENTIAL TRAVEL

DIFFERENTIAL TRAVEL

RELEASE TRAVEL

RELEASE TRAVEL

NOTES

1- SWITCH IS ASSEMBLED FOR ACTUATION IN BOTH DIRECTIONS BUT MAY BE ADJUSTED TO ACTUATE IN THE CLOCKWISE DIRECTION ONLY OR THE COUNTERCLOCKWISE DIRECTION ONLY

2- TO CONVERT SWITCH FOR ACTUATION IN EITHER THE CLOCKWISE OR COUNTERCLOCKWISE DIRECTION ONLY, REMOVE ACTUATOR HEAD AND ROTATE THE NOTCHED PLUNGER 90° TO THE RIGHT FOR CLOCKWISE ACTUATION OR 90° TO THE LEFT FOR COUNTERCLOCKWISE ACTUATION

⚠ SEAL TO BE FURNISHED BY USER

⚠ ROLLER LEVER MAY BE LOCKED IN ANY POSITION THRU 360°

5- LEVER FURNISHED UNASSEMBLED IN UNIT PACKING BOX

CHARACTERISTICS	ELECTRICAL DATA	SCALE 1/2 TO 1
OPERATING TORQUE --- 4.5 IN-LB MAX	CONTACT ARRANGEMENT (SEE CIRCUIT DIAGRAM)	DO NOT SCALE PRINT
FULL OVERTRAVEL TORQUE --- 6 IN-LB MAX		UNLESS OTHERWISE NOTED
RELEASE TORQUE --- .75 IN-LB MIN	10 A-110, 240, OR 480 VAC, 1/3 HP-120 VAC	DIMENSIONS ARE IN INCHES
PRETRAVEL --- 20° MAX	3/4 HP-240 VAC; 0.8 A-115 VDC; 0.4 A-230 VDC	<b>TOLERANCES ARE:</b>
DIFFERENTIAL TRAVEL --- 12° MAX	0.1 A-550 VDC	ONE PLACE (.01) ± .005
OVERTRAVEL --- 30° MIN	PILOT DUTY, 800 VAC MAX	TWO PLACE (.001) ± .002
RELEASE TRAVEL --- 5° MIN		THREE PLACE (.000) ± .003
SWITCH-BASIC REPLACEMENT --- 2MIN!		ANGLES ± .1
		WEIGHT 9 OZ

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 PAGE 1 OF 1  
 CATALOG LISTING  
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