



### LSN1A



Series HDLS Plug-in: Side Rotary; 1NC  
1NO SPDT Snap Action; 0.5 in - 14NPT  
conduit

**Order Lever Separately**

*Actual product appearance may vary.*

#### Features

- Wide variety of operating heads
- Field adjustable operating modes, for reduced inventory
- Convenience of on-the-spot adjustment instructions
- Complete choice of circuitry and electrical rating options
- Plug-in and non plug-in versions have identical operating characteristics and are dimensionally interchangeable
- Manifold (rear-wire) version
- Explosion-proof versions
- Low temperature versions to -40°C (-40°F)
- Captive head and body screws
- Designed to withstand seismic shock
- Stainless steel (NEMA 4X) versions
- Pre-leaded cable or pre-wired connector types
- Epoxy filled wash down (NEMA 6P) types
- Completely fluorocarbon (FC) sealed versions

#### Description

#### Potential Applications

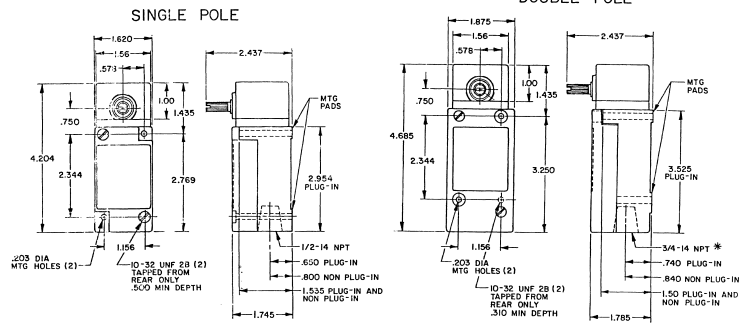
- Machine Tools
- Material Handling
- Packaging
- Presses
- Pulp and Paper
- Welding
- PLC Interface

Sensing and Control offers the world's most advanced line of MICRO SWITCH™ heavy-duty limit switches. These switches include boss-and-socket head design for secure head-to-body retention, unique all-metal drive train for consistent operating characteristics even at high temperature (lasts longer without the need for frequent adjustment than drive trains with plastic parts,) self-lifting pressure plate terminals save wiring time, easily identified grounding terminal (inside) for compliance with OSHA and other regulatory agency standards, one piece flat gasket (seals better than gaskets that go around curves and corners, does not contact terminal pins to reduce chances of fluid migration,) front mounting and interchangeability of single- and double-pole switches, plug-in and non plug-in with one another and with other switch brands, tracking interchangeability of actuator levers for single- and double-pole switches, plug-in and non plug-in, twin shaft seals for an extra measure of protection, inner FC O-ring seal, outer Buna-N seal (all FC available,) FC shaft and diaphragm seals on side rotary switches, rugged corrosion-resistant zinc head and body are phosphate treated and epoxy finished, exclusive teller tab assures proper torque (when it cannot be moved the lever is tight enough to prevent slippage) and domestic and international conduit taps.

Product Specifications	
Availability	Global
Operating Force (O.F.)	0,45 N m max. [4 in lb max.]
Pretravel (P.T.)	65° max.
Overtravel (O.T.)	20° min.
Differential Travel (D.T.)	40° max.
Product Type	MICRO SWITCH™ Heavy-Duty Limit Switches
Actuator	Side Rotary
Lever Style	Lever Not Included - Reference Lever Required Accessory
Circuitry	1NC 1NO Single-Pole Double-Throw, Maintained, Snap-Action, Double-Break
Ampere Rating	10 A (Thermal)
Supply Voltage	600 Vac and 250 Vdc max.
Housing Material	Zinc Die-Cast
Termination Type	0.5 in - 14NPT conduit
Housing Type	HDLS Plug-in
Series Name	HDLS
Sealing	NEMA 1, 3, 4, 4X, 6, 6P, 12, 13
Approvals	UL listed, CSA Certified, CE Certified, CCC Certified
CSA File #	LR57326/Master Contract 152457
UL File #	E37138
Operating Temperature Range	-1 °C to 121 °C [30 °F to 250 °F]
Comment	Maintained contact
Agency Approvals and Standards	EN60947-1, EN60947-5-1
UNSPSC Code	302119
UNSPSC Commodity	302119 Switches and controls and relays
Sealed	Industrial

OPERATING CHARACTERISTICS	LSA		LSR		LSN		LSP		LSH	
	MOMENTARY		MOMENTARY LOW TORQUE		MAINTAINED		MOMENTARY LOW PRETRAVEL AND DIFF. TRAVEL		MOMENTARY LOW PRETRAVEL AND LOW TORQUE	
PRETRAVEL(MAX)	1°		1°		1°		1°		1°	
DIFFERENTIAL TRAVEL(MAX)	5°		5°		5°		5°		5°	
TOTAL TRAVEL (EEP)	75°		75°		90°		75°		75°	
OPERATING TORQUE(MAX)	4 IN. LBS		1.7 IN. LBS		4 IN. LBS		4 IN. LBS		1.7 IN. LBS	
FULL TRAVEL TORQUE(MAX)	4 IN. LBS		1.7 IN. LBS		4 IN. LBS		4 IN. LBS		1.7 IN. LBS	
OPERATING CHARACTERISTICS	LSU		LSL		LSM		LSF		LSS	
PRETRAVEL(MAX)	5°		18° STEP 1°		18°		18°		NOT APPLICABLE	
OVERTRAVEL(MIN)	5°		2ND STEP 1° ADD'L		5°		5°		NOT APPLICABLE	
DIFFERENTIAL TRAVEL(MAX)	5°		5°		5°		5°		12°	
TOTAL TRAVEL (EEP)	75°		75°		75°		75°		75°	
OPERATING TORQUE(MAX)	4 IN. LBS		4 IN. LBS		4 IN. LBS		12 IN.-OZ		5 IN.-OZ	
FULL TRAVEL TORQUE(MAX)	4 IN. LBS		4 IN. LBS		4 IN. LBS		12 IN.-OZ		5 IN.-OZ	

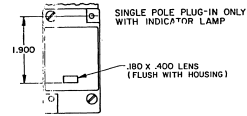
SIDE ROTARY



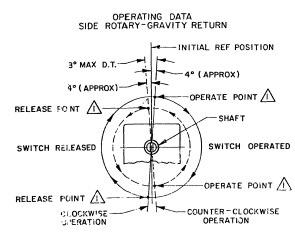
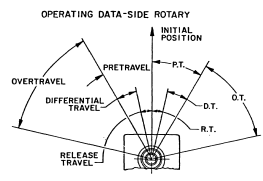
TYPE: LSA1, LSH1, LSN1, LSP1, LSR1, LSA3, LSH3, LSN3, LSP3, LSR3, LSS1, LST1

TYPE: LSA2, LSH2, LSM2, LSN2, LSP2, LSR2, LSA4, LSH4, LSM4, LSN4, LSP4, LSR4

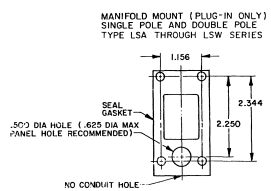
4LSA6, LSH6, LSM6, LSN6, LSP6, LSR6, LSA7, LSH7, LSM7, LSN7, LSP7, LSR7 HAVE 1/2-14 NPT CONDUIT HOLES



120 LAMP VOLTAGE - TYPE LSA5, LSH5, LSN5, LSP5, LSR5  
240 LAMP VOLTAGE - TYPE LSA8, LSH8, LSN8, LSP8, LSR8



NOTE: OPERATE AND RELEASE POINTS WILL EXCHANGE LOCATIONS IF SHAFT IS ROTATED 180°



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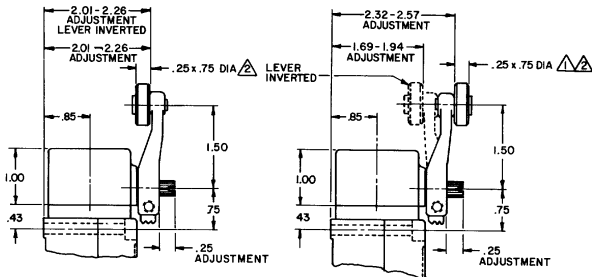
**MICRO SWITCH**  
a Honeywell Division

SWITCH - ENCLOSED LSA-LSW SERIES CHART 1

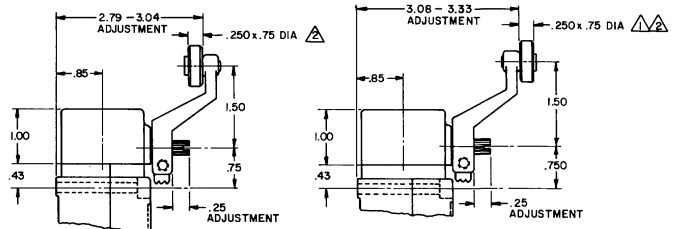
PAGE 1 OF 10  
SCALE: 1:1  
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:  
ONE PLACE .003  
TWO PLACES .0005  
THREE PLACES .0001  
ANGLES .5°

LSA-LSW SERIES CHART 1  
 MICRO SWITCH  
 HONEYWELL DIVISION  
 MILWAUKEE, WISCONSIN 53151  
 MADE IN U.S.A.  
 DRAWING NO. CO-78208  
 REV. 11-68  
 100%

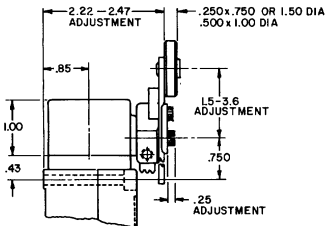
SIDE ROTARY CAM TRACKING



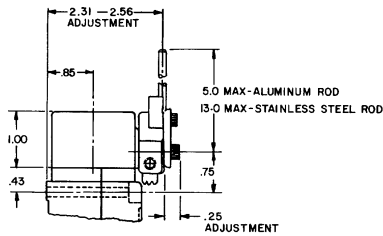
LSZ51 TYPE LEVERS



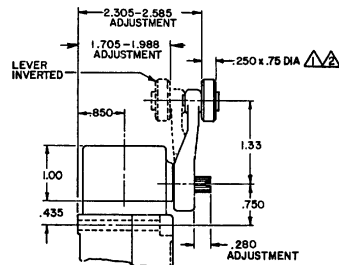
LSZ55 TYPE LEVERS



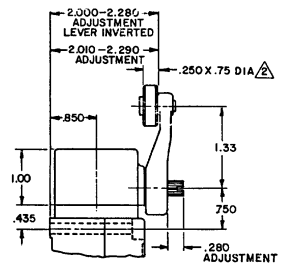
LSZ52 TYPE LEVER



LSZ54 TYPE LEVER



OPEN MOUNTED ROLLER



CLOSED MOUNTED ROLLER

LSZ59 TYPE LEVERS

NOTES

- △ ALSO AVAILABLE IN Ø.250 X 1.500 NYLON, BUT LEVER CANNOT BE INVERTED
- △ FOR ADDITIONAL ROLLER WIDTHS AND/OR DIAMETERS REFER TO "M" DRAWING
- 3 - FOR ADDITIONAL TYPES OF ROLLERS AND LEVERS REFER TO LSZ CHART 1 "M" DRAWING

REV: 12  
 LSA-LSW SERIES CHART 1  
 RAISTER  
 JUN 84  
 MAM 15 JUN 84

REV	DATE	BY	CHK	DESC
1	0031903			
2	0031903			
3	0031903			
4	0031903			
5	0031903			
6	0031903			
7	0031903			
8	0031903			
9	0031903			
10	0031903			
11	0031903			
12	0031903			

MICRO SWITCH a Honeywell Division FED. MFG. CODE 91929		SWITCH - ENCLOSED CATALOG LISTING	LSA-LSW SERIES CHART 1	THIRD ANGLE PROJECTION SCALE NONE DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: ONE PLACE (Ø) ±.030 TWO PLACES (ØØ) ±.015 THREE PLACES (ØØØ) ±.005 ANGLES ± WEIGHT
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