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Sensing and Control
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Sensing and Control

Honeywell Inc.

11 West Spring Street

Freeport, IL 61032

Limit and Enclosed Switches

Harsh Duty Epoxied Limit Switch

HDLS Series



Replacement head part number is metal stamped; won't wash off

Fulfills your actuation criteria
Wide variety of operating heads

Fluorocarbon diaphragm seal

Eliminate fluid infiltration
Epoxied construction

Try your "step test"
Zinc diecast housing, head & body

Additional body seal
Fluorocarbon sealed cover

High compression ridge

Your choice of termination options

Exceeds NEMA 6P
Machine processes and their associated fluids demand **more** than the standard NEMA 6P switch provides.

The Harsh Duty Limit Switch meets the environmental challenges found in actual automotive production facilities and food and beverage lines.

The Harsh Duty Limit Switch is **made** for environments that surpass NEMA 6P test criteria.

No adjustment required over life of switch
All metal drive train

Superior sealing, keeps shaft moving freely
Twin fluorocarbon shaft seals
Superior corrosion resistance
Type 303 stainless steel shaft

Anti-corrosion
Phosphate sealed epoxy finish

Valuable trouble shooting tool
120 VAC neon or 24 V LED indicators available

Fully Potted Limit Switches



FEATURES

- Excellent sealing capability for withstanding Harsh Duty food and beverage wash downs and severe machine tool environments.
- Switch cavity epoxy filled
- Extra diaphragm sealing
- 12' STOOW-A cable or connector version (other lengths available)
- (Cable versions) NEMA 1, 6, 6P, 12
- (Connector versions) NEMA 1, 6, 6P, 12, 13
- All fluorocarbon seals (low temp. available)
- Exceeds NEMA 6P
- UL Listed, file #E37138
- CSA Certified, file #LR57326

The Totally Potted HDLS provides an extra degree of protection in harsh environments by sealing the basic switch cavity with epoxy. These switches are the same as the non plug-in HDLS except that the entire switch cavity is filled with epoxy in addition to the conduit entrance, and the switches are preleaded, either with cable or connectors.

HOW TO ORDER

Only the non plug-in HDLS switches can be converted to a Fully-Potted HDLS.

All indicators are wired to the N.O. terminals. (N.C. indicator available page A34.)

Limit/Enclosed

ORDER GUIDE – ROTARY ACTUATED SWITCHES

Circuitry	Body Style	Catalog Listing						
		Side Rotary						
		Standard	Low D.T.	5° P.T.	Low Torque	Low D.T. Low Torque	Maintained	Top Rotary High O.T. (1)
<p>SPDT Double-Break Elect. Rating: A</p>	Preleaded w/cable	LSYAC3KP-FP	LSYPC3KP-FP	LSYUC3KP-FP	LSYRC3KP-FP	LSYHC3KP-FP	LSYNC3KP-FP	LSYBC3KP-FP
	Pre-wired w/connector	LSYAC3KQ-FP	LSYPC3KQ-FP	LSYUC3KQ-FP	LSYRC3KQ-FP	LSYHC3KQ-FP	LSYNC3KQ-FP	LSYBC3KQ-FP
	Preleaded w/cable 120 VAC Neon	LSYAC5KP-FP	LSYPC5KP-FP	LSYUC5KP-FP	LSYRC5KP-FP	LSYHC5KP-FP	LSYNC5KP-FP	LSYBC5KP-FP
	Pre-wired w/connector 120 VAC Neon	LSYAC5KQ-FP	LSYPC5KQ-FP	LSYUC5KQ-FP	LSYRC5KQ-FP	LSYHC5KQ-FP	LSYNC5KQ-FP	LSYBC5KQ-FP
<p>DPDT Double-Break Elect. Rating: B</p>	Preleaded w/cable	LSYAC4LX-FP	LSYPC4LX-FP	LSYUC4LX-FP	LSYRC4LX-FP	LSYHC4LX-FP	LSYNC4LX-FP	LSYBC4LX-FP
	Pre-wired w/connector	LSYAC7LR-FP	LSYPC7LR-FP	LSYUC7LR-FP	LSYRC7LR-FP	LSYHC7LR-FP	LSYNC7LR-FP	LSYBC7LR-FP

(1) Top rotary version

ORDER GUIDE – SIDE ROTARY (Continued)

Circuitry	Body Style	Catalog Listing
<p>CENTER NEUTRAL (Momentary)</p> <p>SPDT Double Break each direction Electrical Rating: B</p>	Preleaded w/cable	LSYMC4NX-FP
	Pre-wired w/connector	LSYMC7NR-FP

ORDER GUIDE – SIDE ROTARY (Continued)

Circuitry	Body Style	Catalog Listing
<p>SEQUENCE (Momentary)</p> <p>(2) SPDT Double Break with 10° between operation Electrical Rating: B</p>	Preleaded w/cable	LSYLC4MX-FP
	Pre-wired w/connector	LSYLC7MR-FP

For low temperature applications, substitute "Y_B" for the "Y_C".

See page A42 for temperature ratings.

See pages A57-A63 for drawings.

See pages A33 and A35 for operating characteristics.

Other styles of fully potted limit switches are available than shown in this catalog. Consult the 800 number for further information.

Fully Potted Limit Switches

ORDER GUIDE – TOP PLUNGERS AND WOBBLE ACTUATORS

Circuitry	Body Style	Catalog Listing			
		Top Plungers			Wobble Actuators
		Plain	Roller	Adjustable	
<p>SPDT Double-Break Elect. Rating: A</p>	Preleaded w/cable	LSYCC3KP-FP	LSYDC3KP-FP	LSYVC3KP-FP	LSYJC3KP-**FP
	Pre-wired w/connector	LSYCC3KQ-FP	LSYDC3KQ-FP	LSYVC3KQ-FP	LSYJC3KQ-**FP
	Preleaded w/cable 120 VAC Neon	LSYCC5KP-FP	LSYDC5KP-FP	LSYVC5KP-FP	LSYJC5KP-**FP
	Pre-wired w/connector 120 VAC Neon	LSYCC5KQ-FP	LSYDC5KQ-FP	LSYVC5KQ-FP	LSYJC5KQ-**FP
<p>DPDT Double-Break Elect. Rating: B</p>	Preleaded w/cable	LSYCC4LX-FP	LSYDC4LX-FP	LSYVC4LX-FP	LSYJC4LX-**FP
	Pre-wired w/connector	LSYCC7LR-FP	LSYDC7LR-FP	LSYVC7LR-FP	LSYJC7LR-**FP

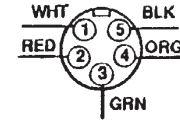
** WOBBLE ACTUATOR CODE:

		Head Style
7A	Delrin Rod	J
7M	Spring Wire	J
8A	Cat Whisker	K
7N	Cable	J
8C	Coil Spring	K

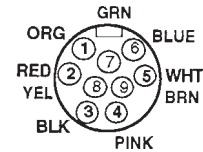
WIRING DIAGRAMS

Connectors = Numbers
Cables = Colors

Single-Pole



Double-Pole



ORDER GUIDE – SIDE PLUNGERS

Circuitry	Body Style	Catalog Listing			
		Side Plungers			
		Plain	Roller	Adjustable	Maintained
<p>SPDT Double-Break Elect. Rating: A</p>	Preleaded w/cable	LSYEC3KP-FP	LSYFC3KP-FP	LSYWC3KP-FP	LSYGC3KP-FP
	Pre-wired w/connector	LSYEC3KQ-FP	LSYFC3KQ-FP	LSYWC3KQ-FP	LSYGC3KQ-FP
	Preleaded w/cable 120 VAC Neon	LSYEC5KP-FP	LSYFC5KP-FP	LSYWC5KP-FP	LSYGC5KP-FP
	Pre-wired w/connector 120 VAC Neon	LSYEC5KQ-FP	LSYFC5KQ-FP	LSYWC5KQ-FP	LSYGC5KQ-FP
<p>DPDT Double-Break Elect. Rating: B</p>	Preleaded w/cable	LSYEC4LX-FP	LSYFC4LX-FP	LSYWC4LX-FP	LSYGC4LX-FP
	Pre-wired w/connector	LSYEC7LR-FP	LSYFC7LR-FP	LSYWC7LR-FP	LSYGC7LR-FP

Pin numbers in wiring diagrams correspond to terminal numbers in circuitry diagrams on pages A45 and A46 only.

Electrical Ratings: Connector Versions

Mini	600 VAC, 7A
Micro	300 VAC, 3A

For cable versions see page A34.

MOUNTING DIMENSIONS (For reference only) see page A58

(2) All indicators wired to N.O. terminals.

Temperature Ratings:

	Dry	Wet
Connector version:	250° F (121° C)	212° F (100° C)
Cable version:	221° F (105° C)	140° F (60° C)

