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### Sensing and Control

Honeywell Inc.

11 West Spring Street

Freeport, IL 61032

## Temperature and Performance Data

TABLE 1—TEMPERATURE LIMITS

	Standard HDLS				Low Temperature HDLS				High Temperature HDLS (Fluorocarbon Sealed*)		
	Low Limit		High Limit		Low Limit		High Limit		Low Limit		High Limit
	10°F -12°C	30°F -1°C	200°F 93°C	250°F 121°C	-40°F -40°C	-20°F -29°C	200°F 93°C	250°F 121°C	10°F -12°C	30°F -1°C	250°F 121°C
LSA—Side Rotary Momentary	X			X	X			X	X		X
LSB—Top Rotary		X		X		X		X		X	X
LSC—Top Plain Plunger	X		X			X	X		X		X
LSD—Top Roller Plunger	X		X			X	X		X		X
LSE—Side Plain Plunger	X		X			X	X		X		X
LSF—Side Roller Plunger	X		X			X	X		X		X
LSG—Side Plunger Maintained		X	X			X	X			X	X
LSH—Side Rotary, Low P.T., Low Torque		X		X		X		X		X	X
LSJ—Wobble Stick	X		X		X			X	X		X
LSK—Cat Whisker	X		X			X		X	X		X
LSL—Side Rotary Sequence	X			X	X			X	X		X
LSM—Side Rotary Center Neutral		X		X	X			X		X	X
LSN—Side Rotary Maintained		X		X		X		X		X	X
LSP—Side Rotary, Low Pretravel	X			X	X			X	X		X
LSR—Side Rotary, Low Torque		X		X		X		X		X	X
LSV—Top Adjustable Plunger	X		X			X	X		X		X
LSW—Side Adjustable Plunger	X		X			X	X		X		X

\*For HDLS application wherein the upper temperature limit is normally above 200°F (93°C), much longer switch life can be obtained by using completely fluorocarbon-sealed switches rather than the standard HDLS.

TABLE 2—ENVIRONMENTAL SEAL PERFORMANCE

Std. Seals	Cellulube	Detergent	5 Star	ASTM #1	ASTM #2	ASTM #3	ASTM #4	Houghto Safe 260, 271	Houghto Safe 1010, 1055, 1120	Mineral Oil	Petr. Oil Crude	Silicon Gr. & Oil	Sunsafe	Beer	Stoddard Solv.	Chlorinated Solvents	Citric Acids	Di-ester Syn. Lubricant	Ozone	Pydraul	Pyroguard	Petr. Base Hydraulic Oil	Lard Oil	Silicate Esters
LSA	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
LSB	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
LSC	4	2	2	1	2	4	4	2	4	2	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSD	4	2	2	1	2	4	4	2	4	2	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSE	4	2	2	1	2	4	4	2	4	2	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSF	4	2	2	1	2	4	4	2	4	2	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSG	4	2	2	1	2	4	4	2	4	2	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSH	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
LSJ	4	2	2	1	2	4	4	2	4	2	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSK	4	2	2	1	2	4	4	2	4	2	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSL	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
LSM	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
LSN	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
LSP	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
LSR	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
LSV	4	2	2	1	2	4	4	2	4	2	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSW	4	2	2	1	2	4	4	2	4	2	2	1	2	1	2	4	1	4	3	4	4	2	2	2

All HDLS with seals of:

Fluorosilicone (Low Temp. HDLS)	4	1	1	1	1	1	2	2	4	1	1	1	1	1	1	1	1	2	1	4	4	1	1	1
Fluorocarbon (High Temp. HDLS)	1*	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

\*Fluorocarbon seals good for all Cellulubes Except A60.CODE:

1 = Satisfactory  
2 = Fair  
3 = Doubtful  
4 = Unsatisfactory