LCX Series

Linear Slide







Table of Contents

LCX Series

Features and Benefits	3
How To Order	4
Dimensions	
Technical Specifications	 5
Sensing Part Numbers	6-8
Quick Disconnect Cables	9

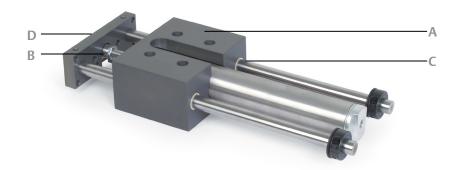




LCX Series

The LCX combines cost-effectiveness with proven dependability. An economical alternative with greater load carrying capabilities.

- Low Cost
- High Load Capability
- Stainless Steel Shafts Available
- Engineered Plastic Polymer Bearing
- Available in 3 Bore Sizes



A. Body:

Hardcoat anodized aluminum.....Lightweight, durable, high strength Increased load carrying capability

B. Alignment Coupler:

360 Degrees of float......Isolates air cylinder from destructive side loads maximum cylinder life

C. Bushings:

Engineered plastic polymer.....Low friction, high durability, no lubrication required Maximum rigidity.....Superior rod diameter to bushing length ratio

D. NuMate™ Mounting:

Direct mount mounting system.... Mount other Aventics products directly to tooling plate for modular component automation

NPN (sinking) Straight

= Prox Switch on Cylinder -

PNP (sourcing) 90 Deg.

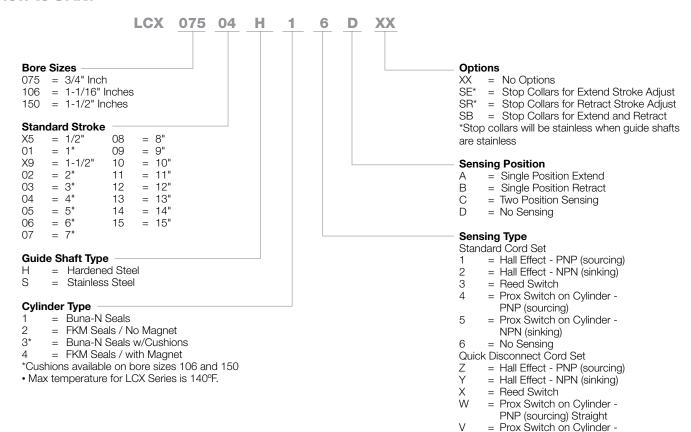
Prox Switch on Cylinder -NPN (sinking) 90 Deg.

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How to Order



When ordering additional accessories:

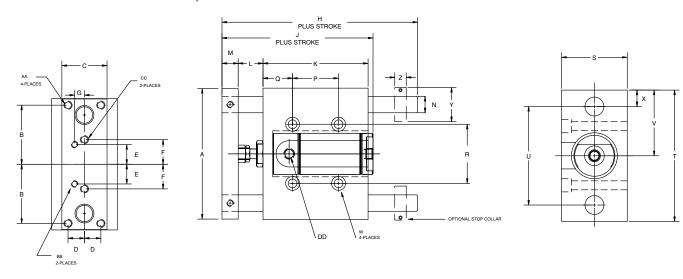
Switch Description	Standard Part No.	Quick Disconnect Part No.
Hall Effect - PNP (Sourcing)	P494A0022300A00	P494A0022600A00
Hall Effect - NPN (Sinking)	P494A0022400A00	P494A0022700A00
Reed Switch	P494A0021300A00	P494A0021600A00
90° 5 meter cable	-	PXC90
Straight 5 meter cable	-	PXCST

^{*}Bands and tracks required for mounting.

Reference bracket in the Switch Application Chart in the Sensor section.



LCX Series Dimensions and Specifications

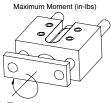


Bore	Α	В	С	D	E	F	G	Н	J	К	L	М	N	P
0.750	3.36	1.50	0.94	0.31	0.50	0.62	0.18	4.06	3.75	2.28	0.62	0.47	0.37	0.94
1.062	3.90	1.75	1.40	0.50	0.62	0.75	0.23	4.66	4.24	2.57	0.82	0.48	0.50	1.37
1.500	4.97	2.25	1.72	0.62	0.75	0.93	0.37	6.43	4.75	4.00	0.94	0.61	0.62	1.75

Bore	Q	R	S	T	U	V	W	Х	Y	Z	AA	BB	cc	DD
0.750	0.51	1.50	1.25	3.40	2.50	1.70	C'bored for 1/4 SHCS	0.45	0.87	0.35	10-32 thru	6-32 thru	10-32 thru	1/8 NPTF
1.062	0.38	1.87	2.00	3.95	3.00	1.97	C'bored for 5/16 SHCS	0.47	1.12	0.41	1/4-20 thru	10-32 thru	1/4-20 thru	1/8 NPTF
1.500	1.12	2.25	2.50	5.00	3.75	2.50	C'bored for 5/16 SHCS	0.62	1.29	0.43	5/16-18 thru	1/4-20 thru	5/16-18 thru	1/8 NPTF

Maximum Side Loads (lbs) Maximum Moment (in-lbs)





Unit Output Force

	LCX 075	LCX 106	LCX150
Extend Force (lbs)	0.44	0.88	1.76
Retract Force (lbs)	0.39	0.81	1.61

Multiply force factor X input pressure in psi Example: LCX075 extend force @ 70psi .44 X 70= 30.8

Stroke	LCX 075	LCX 106	LCX150	LCX 075	LCX 106	LCX 150
1	102	165	273	108	259	546
2	82	136	233	87	212	466
3	66	116	199	70	181	398
4	55	98	170	58	153	340
5	45	86	144	48	134	288
6	39	74	124	41	116	248
7	34	65	109	36	101	218
8	30	57	97	32	89	194
9	26	52	87	28	81	174
10	24	47	79	26	73	158
11	22	43	72	23	67	144
12	20	39	66	21	61	132
13	19	36	62	20	57	124
14	17	34	58	19	53	117
15	16	32	55	17	50	110

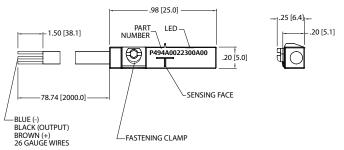
Static Rating





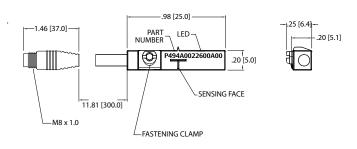
Sensing Part Numbers

P494A0022300A00



26 GAUGE WIRES	more more established
ELECTRICAL DESIGN	DC PNP
OUTPUT	Normally Open
OPERATING VOLTAGE	10-30 VDC
CURRENT RATING	100 mA
SHORT-CIRCUIT PROTECTION	Yes
OVERLOAD PROTECTION	Yes
REVERSE POLARITY PROTECTION	Yes
VOLTAGE DROP	< 2.5 V
CURRENT CONSUMPTION	< 12 mA
REPEATABILITY	<.2mm
POWER-ON DELAY TIME	< 30 ms
SWITCH FREQUENCY	> 3000 Hz
AMBIENT TEMPERATURE	-25°C to 85°C
PROTECTION	IP 67, III
HYSTERESIS	1.0mm
MAGNETIC SENSITIVITY	2.0 mT
TRAVEL SPEED	> 10 m/s
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED
CONNECTION	Flying Leads, Pur Cable (2m Long, 3 x26 Gauge Wire)
REMARKS	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required
ACCESSORIES	Rubber Placehold, Cable Clip, and Cut Sheet To Be Provided with Every Switch
AGENCY APPROVALS	C E cUL us RoHS

P494A0022600A00



ELECTRICAL DESIGN	DC PNP		
OUTPUT	Normally Open		
OPERATING VOLTAGE	10-30 VDC		
CURRENT RATING	100 mA		
SHORT-CIRCUIT PROTECTION	Yes		
OVERLOAD PROTECTION	Yes		
REVERSE POLARITY PROTECTION	Yes		
VOLTAGE DROP	< 2.5 V		
CURRENT CONSUMPTION	< 12 mA		
REPEATABILITY	<.2mm		
POWER-ON DELAY TIME	< 30 ms		
SWITCH FREQUENCY	> 3000 Hz		
AMBIENT TEMPERATURE	-25°C to 85°C		
PROTECTION	IP 67, III		
HYSTERESIS	1.0mm		
MAGNETIC SENSITIVITY	2.0 mT		
TRAVEL SPEED	> 10 m/s		
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel		
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED		
CONNECTION	M8 Connector (Snap Fit) , Pur Cable (.3 m)		
REMARKS	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required		
ACCESSORIES	Rubber Placehold, Cable Clip, and Cut Sheet To Be Provided with Every Switch		
AGENCY APPROVALS	C E c UL us RoHS		

^{*} Switches are not designed for wet environments. Please see your distributor for additional information.





Sensing Part Numbers

P49	94A0022/00A00	
11.81 [300.0]	98 [25.0] PART LED NUMBER LED .20 [5.0] SENSING FACE	-,25 [6.4]

BROWN (+) FASTENING CLAMP 26 GAUGE WIRES					
ELECTRICAL DESIGN	DC NPN				
OUTPUT	Normally Open				
OPERATING VOLTAGE	10-30 VDC				
CURRENT RATING	100 mA				
SHORT-CIRCUIT PROTECTION	Yes				
OVERLOAD PROTECTION	Yes				
REVERSE POLARITY PROTECTION	Yes				
VOLTAGE DROP	< 2.5 V				
CURRENT CONSUMPTION	< 12 mA				
REPEATABILITY	<.2mm				
POWER-ON DELAY TIME	< 30 ms				
SWITCH FREQUENCY	> 3000 Hz				
AMBIENT TEMPERATURE	-25°C to 85°C				
PROTECTION	IP 67, III				
HYSTERESIS	1.0mm				
MAGNETIC SENSITIVITY	2.0 mT				
TRAVEL SPEED	> 10 m/s				
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel				
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED				
CONNECTION	Flying Leads, Pur Cable (2m Long, 3 x26 Gauge Wire)				
REMARKS	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required				
ACCESSORIES	Rubber Placehold, Cable Clip, and Cut Sheet To Be Provided with Every Switch				
AGENCY APPROVALS	C C CUL US ROHS				

ELECTRICAL DESIGN	DC NPN
OUTPUT	Normally Open
OPERATING VOLTAGE	10-30 VDC
CURRENT RATING	100 mA
SHORT-CIRCUIT PROTECTION	Yes
OVERLOAD PROTECTION	Yes
REVERSE POLARITY PROTECTION	Yes
VOLTAGE DROP	< 2.5 V
CURRENT CONSUMPTION	< 12 mA
REPEATABILITY	<.2mm
POWER-ON DELAY TIME	< 30 ms
SWITCH FREQUENCY	> 3000 Hz
AMBIENT TEMPERATURE	-25°C to 85°C
PROTECTION	IP 67, III
HYSTERESIS	1.0mm
MAGNETIC SENSITIVITY	2.0 mT
TRAVEL SPEED	> 10 m/s
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED
CONNECTION	M8 Connector (Snap Fit) , Pur Cable (.3 m)
REMARKS	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required
ACCESSORIES	Rubber Placehold, Cable Clip, and Cut Sheet To Be Provided with Every Switch
AGENCY APPROVALS	C C CUL US ROHS

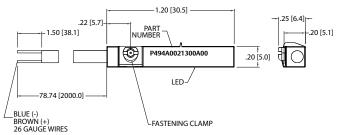
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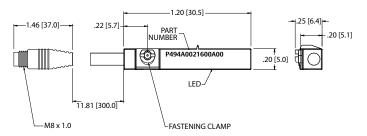
Sensing Part Numbers

P494A0021300A00



BROWN (+) 26 GAUGE WIRES	FASTENING CLAMP			
ELECTRICAL DESIGN	AC/DC REED			
OUTPUT	Normally Open			
OPERATING VOLTAGE	5-120 VAC/DC			
CURRENT RATING	100 mA*			
SHORT-CIRCUIT PROTECTION	No			
OVERLOAD PROTECTION	No			
REVERSE POLARITY PROTECTION	Yes			
VOLTAGE DROP	< 5 V			
REPEATABILITY	± .2mm			
MAKETIME INCLUDING BOUNCE	< .6 ms			
BREAKTIME	< .1 ms			
SWITCHING POWER (MAX)	5 W			
SWITCH FREQUENCY	1000 Hz			
AMBIENT TEMPERATURE	-25°C to 70°C			
PROTECTION	IP 67, II			
HYSTERESIS	.9mm			
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel			
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED			
CONNECTION	Flying Leads, Pur Cable (2m Long, 2 x26 Gauge Wire)			
REMARKS	*External Protective Circuit for Inductive Load (Valve, Contactor, Etc) Necessary. Conforms to 2008 NEC Section 725 III, Class 2 Circuits			
	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5. No LED Function in case of Polarity in DC Operation			
ACCESSORIES	Rubber Placehold, Cable Clip, and Cut Sheet To Be Provided with Every Switch			
AGENCY APPROVALS	(€ RoHS			

P494A0021600A00



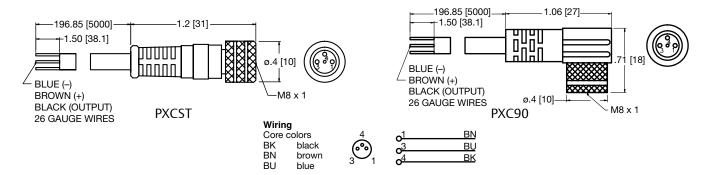
ELECTRICAL DESIGN	AC/DC REED				
OUTPUT	AC/DC REED				
OPERATING VOLTAGE	Normally Open				
	*5-60 VDC / 5-50 VAC				
CURRENT RATING	100 mA				
SHORT-CIRCUIT PROTECTION	No				
OVERLOAD PROTECTION	No				
REVERSE POLARITY PROTECTION	Yes				
VOLTAGE DROP	< 5 V				
REPEATABILITY	± .2mm				
MAKETIME INCLUDING BOUNCE	< .6 ms				
BREAKTIME	<.1 ms				
SWITCHING POWER (MAX)	5 W				
SWITCH FREQUENCY	1000 Hz				
AMBIENT TEMPERATURE	-25°C to 70°C				
PROTECTION	IP 67, II				
HYSTERESIS	.9mm				
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel				
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED				
CONNECTION	M8 Connector (Snap Fit), Pur Cable (.3m)				
REMARKS	*External Protective Circuit for Inductive Load (Valve, Contactor, Etc) Necessary. Conforms to 2008 NEC Section 725 III, Class 2 Circuits				
	M8 Connector voltage limited to 5-60 vdc / 5-50 vac to conform with 2008 IEC 61076-2-104				
	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5. No LED Function in case of Polarity in DC Operation				
ACCESSORIES	Rubber Placehold, Cable Clip, and Cut Sheet				
ACCESSORIES	To Be Provided with Every Switch				
AGENCY APPROVALS	(F RoHS				

 $^{{}^* \}textbf{Switches are not designed for wet environments. \ Please see your distributor for additional information.} \\$





Quick Disconnect Cables



Order Code	Туре	Operating Voltage	Current Rating	Cable Material	Protection	Connector
PXCST	Straight 5 m Cable (3 x 26 Gauge wire)	60 AC/75 DC	3 A	PUR	IP 68, III	M8
PXC90	90° 5 m Cable (3 x 26 Gauge wire)	60 AC/75 DC	3 A	PUR	IP 68, III	M8

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