

NEXUS-LPX™ is a discrete valve controller providing an optimized solution for on/off valve control & position sensing in hazardous area locations for the process industries. Equipped with a low watt miniature pilot valve and position switches or sensors, the NEXUS-LPX™ helps plants, platforms, and pipelines improve productivity and increase safety in the harshest environments and toughest applications.

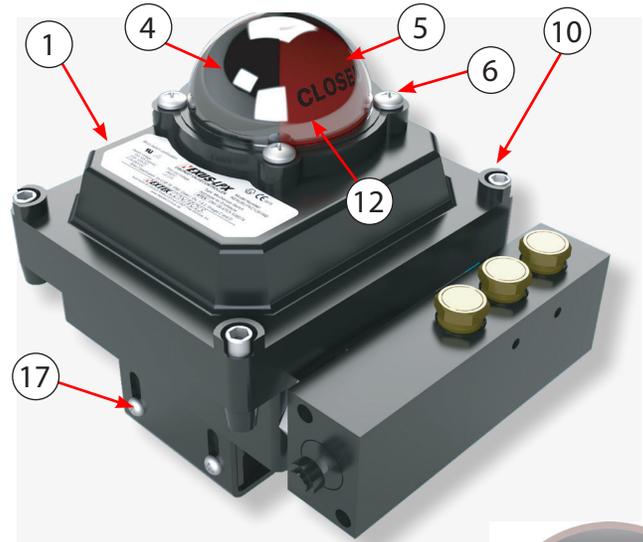
**NEXUSLPX DESIGN FEATURES**

- ✓ Integrated Solution (switches, sensors, pilot and spool valve in a single platform)
- ✓ Approved for Enclosure: DNV 09 ATEX 53807X, NEMA 7
- ✓ Area Classification: Ex d IIB T6, IP66, Class I, Div. 1 Groups C & D, Class II, Div 1 Groups E, F, D & Div. 2 Groups F & G
- ✓ Suitable for use on rotary applications for double acting or spring return actuators
- ✓ NAMUR and ISO 5211 adjustable mounting bracket
- ✓ 5/2 Aluminum spool valve, anodized and polyester coated
- ✓ 1 x 3/4" NPT conduit entry
- ✓ Single pilot actuated, with manual operator (Cv=1.4)
- ✓ Optional C3 Coil for Intrinsic Safe Applications

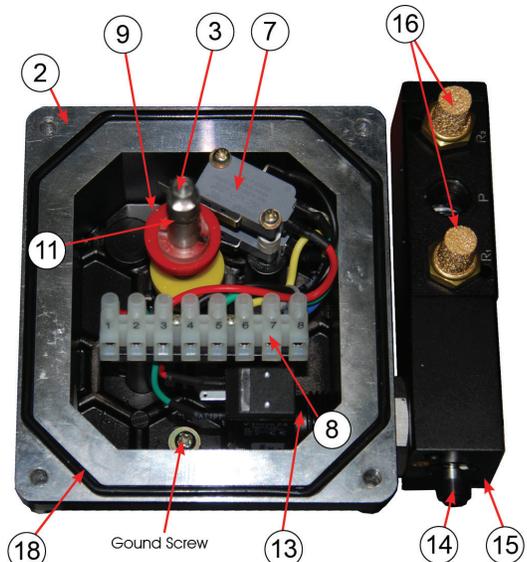
**MATERIALS OF CONSTRUCTION**

ITEM	DESCRIPTION	MATERIALS SPECIFICATIONS
1	Box Cover	Die Cast Aluminum*
2	Box Housing	Die Cast Aluminum*
3	Shaft	Stainless Steel
4	Indicator Cover	Polycarbonate
5	Indicator	ABS
6	Indicator Fasteners	Stainless Steel
7	Switches	Mechanical Switches
8	Terminal Strip	Polycarbonate
9	Cams	Polycarbonate
10	Cover Fasteners	Stainless Steel
11	Shaft O-Ring	Buna "N"
12	Indicator O-Ring	Buna "N"
13	Pilot Base	Die Cast Aluminum
14	Manual Operator	Die Cast Aluminum
15	Spool Valve	Die Cast Aluminum
16	Breathers	Copper Alloy
17	Mounting Bracket	Carbon Steel

\*With Polyester Coating



SVF Flow Controls was named among this year's Flow Control Innovation Awards winners for the key innovations represented by our NEXUS-LP/LPX Integrated Solenoid Valve & Limit Switch System. Based on votes from readers of Flow Control Magazine, the NEXUS-LP/LPX was honored this year for novel features and contributions to the process of fluid movement, measurement and/or containment.



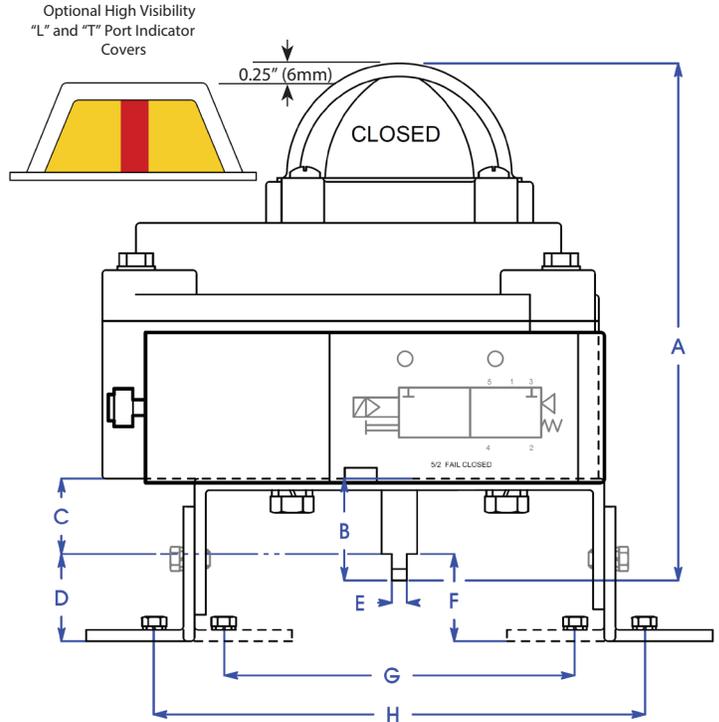
WORKING PRESSURE: 40 psi ~ 120 psi (2.8 bar ~ 8 bar)  
 WORKING MEDIUM: Filtered and dried air  
 TEMPERATURE RATING: -4 °F ~ +185 °F (-20 °C ~ +85 °C)

**NEXUSLP™ DIMENSIONS AND WEIGHT**

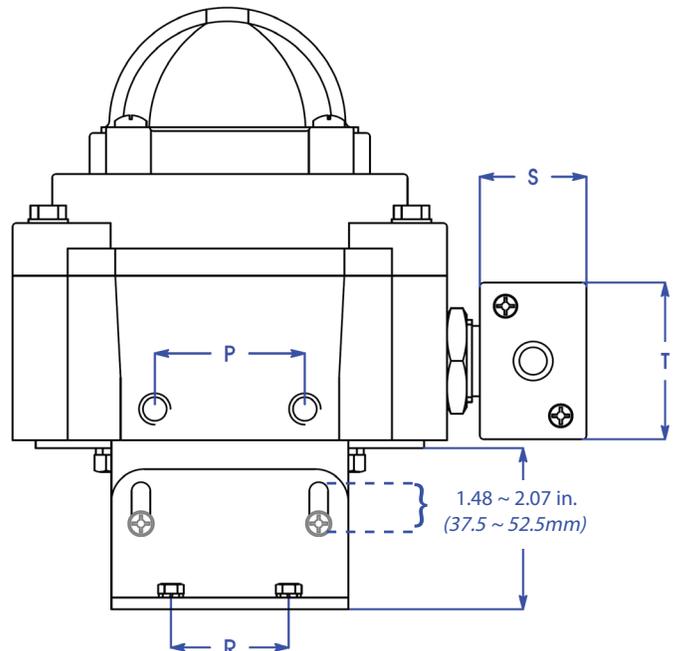
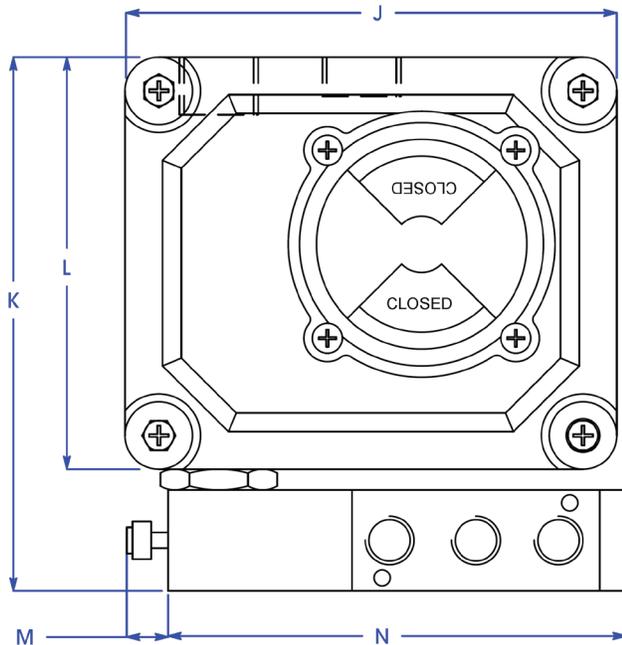
Item	Dimension	
	in.	mm
A	5.67	144
B	1.06	27
C	0.79	20
D	0.79	20
E	0.16	4
F	0.79	20
G	3.15	80
H	5.12	130
J	5.02	128
K	5.69	145
L	4.41	112
M	0.43	11
N	4.53	115
P	1.50	38
R	1.18	30
S	1.06	27
T	1.57	40

Weight:  
2.5lbs. (1.13 kg)

**NEXUS-LPX™**  
Discrete VALVE CONTROLLER



The overall height of the NEXUS-LPX including the mounting bracket is:  
6.17" when installing on *aero2* models A2DS-10 ~ A2DS-500 (Quad4 Models Q15 ~ Q45)  
6.57" when installing on *aero2* models A2DS-550 ~ A2DS-700 (Quad4 Models Q60 & Q75)

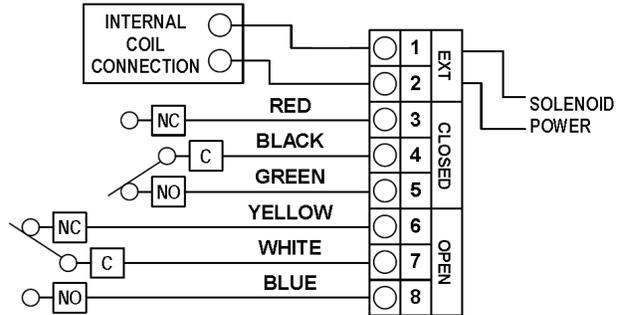
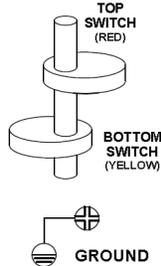


## WIRING DIAGRAM



Wiring Diagram located inside top cover.

Mechanical Switches M2B= (Standard) 2 SPDT, 15A 125-250VAC  
Part # NEXUSLPX(\*)M2B(\*\*) - Wiring Diagram # WDNX2PM2D

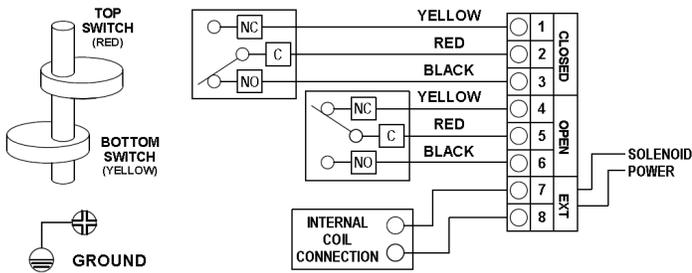


## HOW TO ORDER GUIDE

SERIES	PILOT COIL VOLTAGE	SWITCHES/SENSORS	POSITION INDICATOR
<p>NEXUSLPX= TWO POSITION DISCRETE VALVE CONTROLLER</p> <p>ATEX</p> 	<p>4 = 110 VAC (&lt; 2.8VA) (Standard)</p> <p>2 = C2 Coil 24VDC (&lt; 1 W)</p> <p>5 = 220VAC (&lt; 2.8VA)</p> <p>For Intrinsically Safe*</p> <p>3 = C3 Coil 24VDC (&lt;1W)</p>	<p>Mechanical Switches M2B= (Standard) 2 SPDT 15A 125-250VAC, 3A/24VDC</p> <p>M50= 2 DPDT 15A 125-250VAC, 3A/24VDC</p> <p><u>Optional Switches:</u> Proximity Sensors</p> <p>Q30 = Magnetic Reed Switch 2 SPDT 5-240VAC/VDC, 300mA</p> <p>P20 = Inductive, NO 2 wire 10-30VDC, 150mA</p> <p>PP0 = (P &amp; F) Inductive, NC 2 wire 8VDC, 1mA</p> <p>P30 = Inductive NPN-NO 3 wire 10-30 VDC, 150mA</p> <p>P3A = Inductive NPN-NC 3 wire 10-30 VDC, 150mA</p> <p>P3B = Inductive PNP-NO 3 wire 10-30 VDC, 150mA</p>	<p>Leave Blank for Standard 90 degree Position Indicator Yellow Open, Red Closed</p>  <p>L = High Visibility Three Way "L" Yellow Base, Red Flow Bar</p>  <p>T = High Visibility Three Way "T" Yellow Base, Red Flow Bar</p>  <p>Consult SVF for other options available.</p>
Order Example: (NEXUSLPX4M2B)			
<p>NEXUS-LPX two-position discrete valve controller for Hazardous Locations, 110VAC (Standard), M2B Mechanical Switches (Standard), 90 Degree Open/Closed Position Indicator.</p>			
NEXUSLPX	4	M2B	(BLANK)

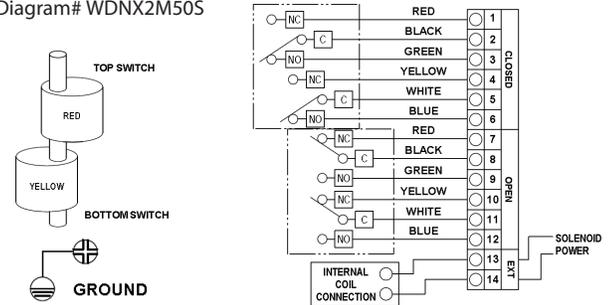
## WIRING DIAGRAM

Wiring Diagram# WDNX2Q30S



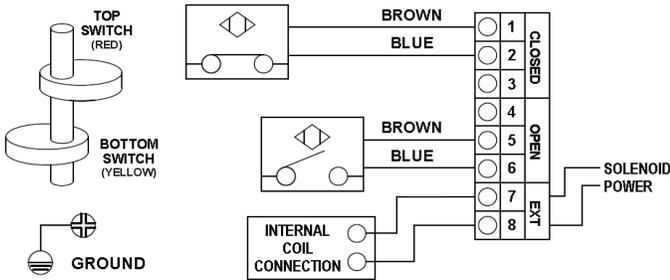
Part # NEXUSLPX(\*)Q30(\*\*) = Proximity Sensors NC (3-Wire) Magnetic Sensors

Wiring Diagram# WDNX2M50S



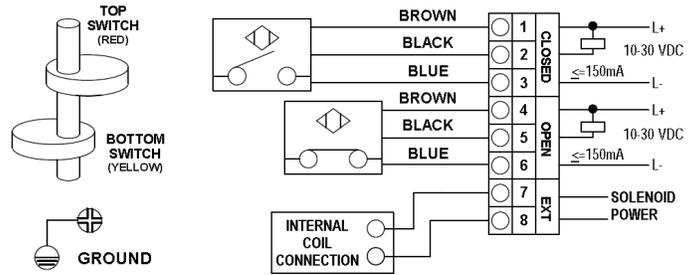
Part # NEXUSLPX(\*)M50(\*\*) = Mechanical Switches 2 DPDT

Wiring Diagram# WDNX2P20S



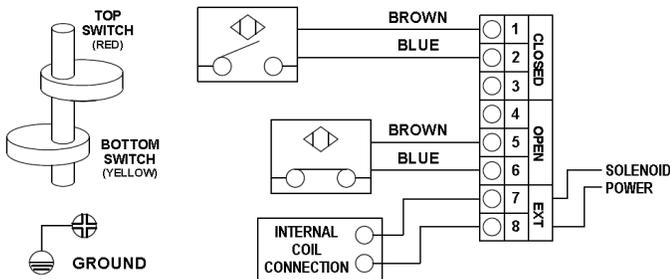
Part # NEXUSLPX(\*)P20(\*\*) = Proximity Sensors NO (2-Wire) Inductive Sensors

Wiring Diagram# WDNX2P3AS



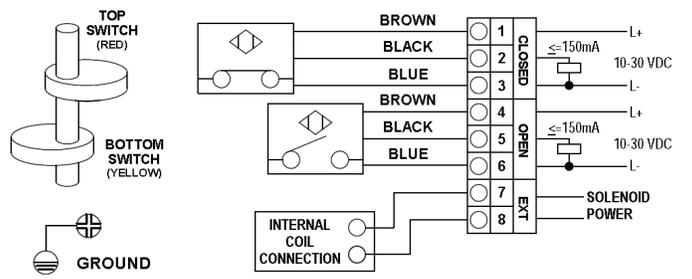
Part # NEXUSLPX(\*)P3A(\*\*) = Proximity Sensors NPN NC (3-Wire) Inductive Sensors

Wiring Diagram# WDNX2PP0S



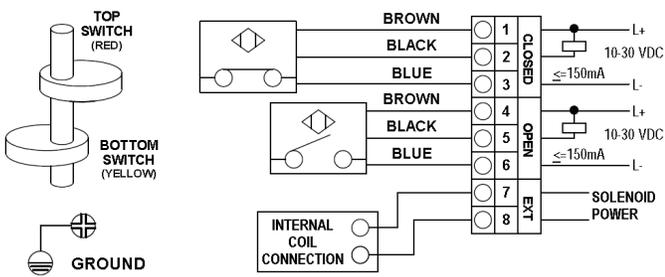
Part # NEXUSLPX(\*)PP0(\*\*) = Proximity Sensors NC (2-Wire) (P & F) Inductive Sensors

Wiring Diagram# WDNX2P3BS



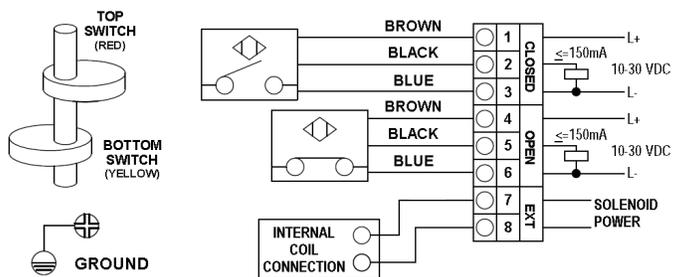
Part # NEXUSLPX(\*)P3B(\*\*) = Proximity Sensors PNP NO (3-Wire) Inductive Sensors

Wiring Diagram# WDNX2P30S



Part # NEXUSLPX(\*)P30(\*\*) = Proximity Sensors NPN NO (3-Wire) Inductive Sensors

Wiring Diagram# WDNX2P3CS



Part # NEXUSLPX(\*)P3C(\*\*) = Proximity Sensors PNP NC (3-Wire) Inductive Sensors