



Automation & Controls Product Group of SVF Flow Controls



**NEXUS-LP™** is a discrete valve controller providing an optimized

solution for on/off valve control & position sensing for the process industries.

Equipped with a low watt miniature pilot valve and position switches or sensors, the **NEXUS-LP<sup>TM</sup>** helps plants, platforms, and pipelines improve productivity and increase safety in the harshest environments and toughest applications.

# **EXUS-LP** <sup>TM</sup> DESIGN FEATURES

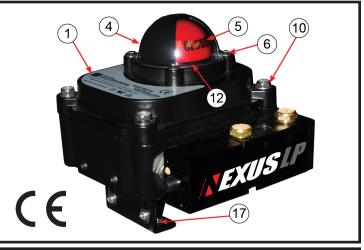
- ▼ Integrated Solution (switches, sensors, pilot and spool valve in a single platform)
- ▼ NEMA 4/4X, IP67 certified
- Suitable for use on rotary applications for double acting or spring return actuators
- ▼ NAMUR and ISO 5211 adjustable mounting bracket
- 5/2 Aluminum spool valve, anodized and polyester coated
- ▼ 2 x 1/2″ NPT conduit entries
- $\checkmark$  Single pilot actuated, with manual operator (Cv=1.4)
- Optional C3 Coil for Intrinsic Safe Applications

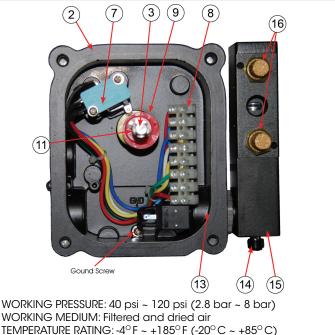
### MATERIALS OF CONSTRUCTION

ITEM #	DESCRIPTION	MATERIALS SPECIFICATIONS (Additional options available)	
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 (Not Shown)	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 (NAMUR)	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.









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EXUS-LP

## /**NEXUS-LP**<sup>™</sup> Disc

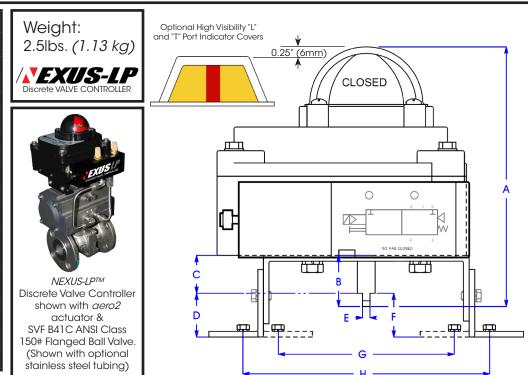
Discrete Valve Controller

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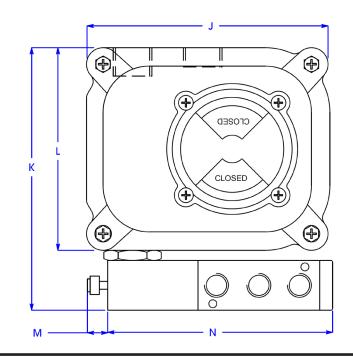


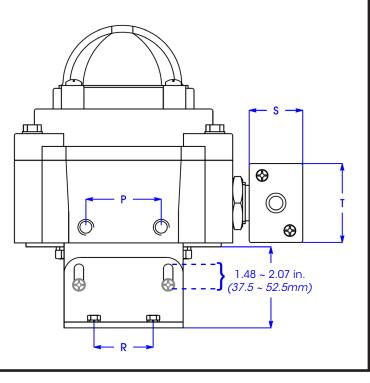


	Dimension	
Item	in.	mm
А	5.43	138
В	1.06	27
С	0.79	20
D	1.18	30
E	0.16	4
F	0.79	20
G	3.15	80
Н	5.12	130
J	5.20	132
K	5.65	144
L	4.33	110
М	0.43	11
Ν	4.53	115
Р	1.50	38
R	1.18	30
S	1.06	27
Т	1.57	40



The overall height of the NEXUS-LP including the mounting bracket is: 5.93" when installing on aero2 models A2DS-10 ~ A2DS-500 (Quad4 Models Q15 ~ Q45) 6.33" when installing on aero2 models A2DS-550 ~ A2DS-700 (Quad4 Models Q60 & Q75)







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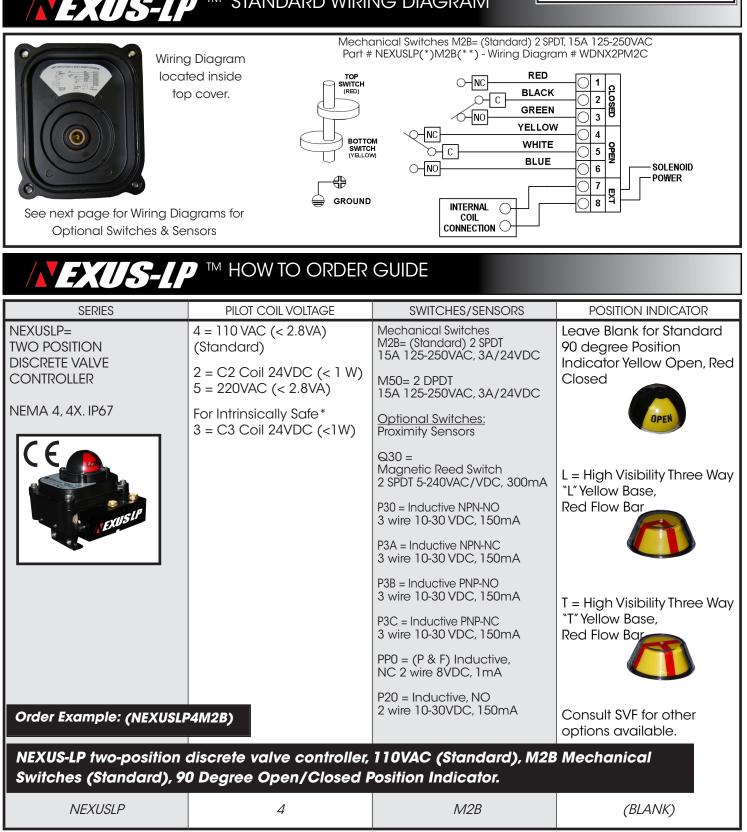


#### NEXUS-LP **Discrete Valve Controller**

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### ™ STANDARD WIRING DIAGRAM =>(//S-1P









Automation & Controls Product Group of SVF Flow Controls **EXUS-LP** WIRING DIAGRAMS FOR SWITCHES & SENSORS Wiring Diagram# WDNX2Q30S Wiring Diagram# WDNX2M50S REC O-NC-BLACK YELLOW 2 TOP SWITCH (RED) O-NC GREEN 3 CLOSED β RED TOP SWITCH YELLOW 0-C 2 O-NC SED WHITE BLACK - C 5 NO 3 BLUE RE YELLOW NO 6 4 RED OHNC 7 RED BLACK 8 ъc 0 - C BOTTOM GREEN 9 10 BLACK O-NO SWITCH SOLENOID O-NO-YELLOW 6 YELLOW POWEF Q-NC 7 8 4 WHITE BOTTOM SWITCH ) 11 С BLUE O-NO ) 12 SOLENOID €€ INTERNAL €€ C 013 014 COIL CONNECTION INTERNAL O-COIL CONNECTION O GROUND GROUND Part # NEXUSLP(\*)Q30(\*\*) = Proximity Sensors NC (3-Wire) Magnetic Sensors Part # NEXUSLP(\*)M50(\*\*) = Mechanical Switches 2 DPDT Wiring Diagram# WDNX2P20S Wiring Diagram# WDNX2P3AS BROWN TOP SWITCH (RED) BROWN  $\bigcirc$ SWITCH BLUE Ω  $\bigcirc$ (RED) BLACK ᅳ ◯ 2 LOSED 10-30 VDC 2 0ŝ BLUE <=150mA 03  $\cap$ 3 BROWN 04 4 d a BROWN  $\Diamond$ BLACK \_\_\_\_\_ 10-30 VDC  $\bigcirc$ PP ) 5 5 BOTTOM BOTTOM BLUE SWITCH SWITCH BLUE <=150mA 06 SOLENOID -0  $\cap$ 6  $\bigcirc$ POWER 7 ( 7 SOLENOID R R POWER 08 8 INTERNAL INTERNAL O  $\cap$ COIL CONNECTION O GROUND GROUND Part # NEXUSLP(\*)P20(\*\*) = Proximity Sensors NO (2-Wire) Inductive Sensors Part # NEXUSLP(\*)P3A(\*\*) = Proximity Sensors NPN NC (3-Wire) Inductive Sensors Wiring Diagram# WDNX2PP0S Wiring Diagram# WDNX2P3BS BROWN TOP BROWN  $\Diamond$ SWITCH SWITCH (RED) 1  $\bigcirc$ BLUE CLOSED (RED) BLACK <u><</u>=150mA CLOSED С 2 2 10-30 VDC  $\bigcirc$ ᅮ BLUE  $\frown$ C 3 3  $\overline{}$ -1 BROWN Э 4 4 1.4  $\bigcirc$ BLACK <u><</u>=150mA BROWN  $\bigcirc$ 5  $\cap$ BOTTOM SWITCH BOTTOM SWITCH 10-30 VDC ÷ BLUE BLUE  $\bigcirc$ Ο 6 SOLENOID 06 POWER 7 7 SOLENOID 3 2 POWER 8 ⊕ ) 8 ⊕ INTERNAL  $\cap$ COIL CONNECTION GROUND GROUND Part # NEXUSLP(\*)P3B(\*\*) = Proximity Sensors PNP NO (3-Wire) Inductive Sensors Part # NEXUSLP(\*)PPO(\*\*) = Proximity Sensors NC (2-Wire) (P & F) Inductive Sensors Wiring Diagram# WDNX2P30S Wiring Diagram# WDNX2P3CS TOP WITCH (RED) TOP SWITCH BROWN BROWN  $\Diamond$  $\Diamond$ BLACK Q Ъ. BLACK <u><</u>=150mA (RED) 10-30 VDC 2 2 OSED . OSED 10-30 VDC -BLUE <u><</u>=150mA BLUE C 3 ) 3 BROWN BROWN 4 4 -1+ -1+  $\Diamond$  $\bigcirc$ <u><</u>=150mA BLACK BLACK **PPEN** 5 PEN ф. 10-30 VDC 5 10-30 VDC BOTTON BOTTOM BLUE BLUE <u><</u>=150mA  $\cap$ SWITCH (YELLOW 6 SWITCH (YELLOW) 6 -1 7 7 SOLENOID SOLENOID \$ 3 POWER 8 POWER 8 INTERNAL INTERNAL 0  $\bigcirc$ COIL CONNECTION O GROUND GROUND Part # NEXUSLP(\*)P30(\*\*) = Proximity Sensors NPN NO (3-Wire) Inductive Sensors Part # NEXUSLP(\*)P3C(\*\*) = Proximity Sensors PNP NC (3-Wire) Inductive Sensors



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