

Technical Information

Dimensional Drawings, Electrical Ratings

D-Series MODELS

DXP



DXR



DXS



TX-Series MODELS

TXP



TXS



K-Series MODELS

K2P/S



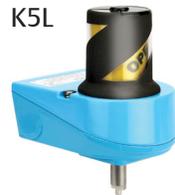
K1P/S



K7L



K5L



TV-Series Models

TVA



TVF



TVH



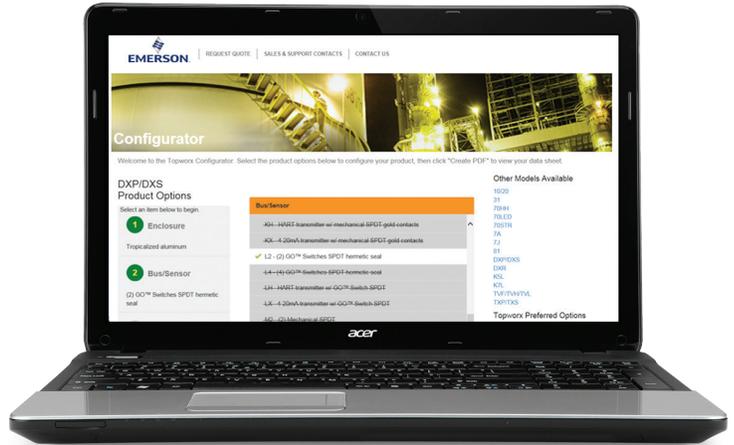
TVL



*Technical information with dimensional drawings are available at Emerson.com/topworx
Please see Installation and Operation Manual for complete product dimensions or contact us
for additional information at info.TopWorx@Emerson.com

Online product configurator

Product datasheets can be generated using the Online Product Configurator. By walking through the selection process, you can easily create the part number and datasheet that meets your application needs. Product datasheets include dimensional data, product options, a wiring diagram, a visual indicator image, and nameplate information.



Example Datasheet for model DXP-L21GNEB:

MODEL NUMBER

DXP-L21GNEB

PRODUCT LINE

Switchbox DXP and DXS

SPECIFICATIONS

Enclosure	Tropicalized aluminum
Bus/Sensor	(2) GO™ Switches SPDT hermetic seal
Area Classification	Explosion proof / flame proof
Visual Display	Standard 90° Green OPEN, Red CLOSED
Shaft	NAMUR 304 stainless steel
Conduit Entries	(2) 3/4" NPT
O-Rings	Buna-N
Pilot	No pilot device(s)
Spool Valve	No spool valve
Valve Cv	No valve Cv
Manual Override	No manual override
Regional Certification	No regional certification
N Switch	No N Switch

WIRING DIAGRAM

NAMEPLATE

CE 0518 Ex IIB + H, T6 Gc, IP66/67
50°C ≤ Ta ≤ 60°C
SIFA 07ATEX1271X IECEx SIF 07.0093X
SWITCH: SPDT 4A/120VAC, 3A/240VDC Hermetically Sealed

Model #:

Telemetry Equipment for use in Hazardous Locations
WARNING: Disconnect the power before servicing. Keep tightly closed during operation. Must be known to be non-hazardous area before servicing. Clean only with damp cloth.
AVERTISSEMENT: Débrancher l'alimentation avant l'entretien. Conservez hermétiquement fermé pendant le fonctionnement. Nettoyez avec un chiffon humide dans des zones non dangereuses avant l'entretien.

TopWorx
3300 Fern Valley Road
Louisville, KY 40213 USA
www.topworx.com

Serial #:

OPEN

CLOSED

Current as of May 26, 2017 – Subject to change without notice.

TOPWORX
3300 Fern Valley Road
Louisville, KY 40213

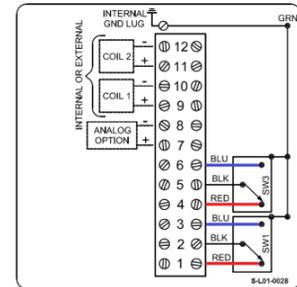
(502)969-8000 PH
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www.topworx.com

Technical Information

Dimensional Drawings, Electrical Ratings

GO Switches

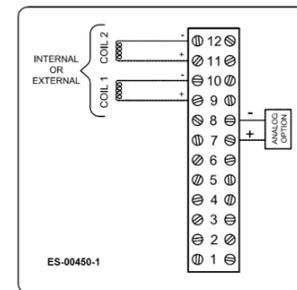
Option	Contact Type	Contact Form	Electrical Rating
L	Gold-Flashed, Dry-Contact	SPDT	4A@120VAC, 3A@24VDC
Z	Palladium Silver, Dry-Contact	DPDT	4A@120VAC, 3A@24VDC



L2

Transmitters

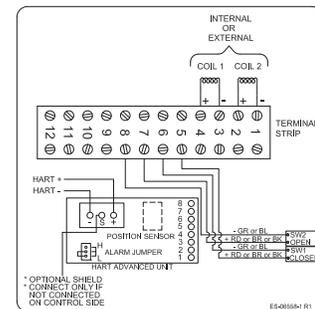
Option	Type	Signal	Electrical Rating
_X	Potentiometer	4-20mA	8.5-34VDC



_X

HART

Option	Type	Signal	Electrical Rating
_H	Potentiometer	4-20mA, HART	15-39VDC



Please see Installation and Operation Manual for complete product dimensions or contact us for additional information at info.TopWorx@Emerson.com

Solenoid Valves

D-Series

<u>Voltage</u>	<u>Power Consumption</u>	<u>Pressure Rating</u>
24VDC	.5W	45-150 PSI
110VAC	3VA	45-150 PSI
220VAC	3VA	45-150 PSI
Piezo	12mW	45-150 PSI



T-Series

<u>Voltage</u>	<u>Power Consumption</u>	<u>Pressure Rating</u>
24VDC	.5W (I.S.), 1W (non-I.S.)	30-100 PSI
110VAC	3VA	30-100 PSI
220VAC	3VA	30-100 PSI



Ordering Guide

How to configure the right product for your application.

We recommend you call your local sales representative, inside sales, or use the online configurator tool at Emerson.com/TopWorx to ensure you choose the right product for your application.

The following is an example of how to configure your product using the TopWorx Ordering Guide. A switchbox part number can be configured by following a number of sequential steps. The ordering guide is organized in a number of categories which are setup as columns. By moving from right to left and filling in the boxes at the bottom of each column you will create a valid switchbox part number.

The following example is for reference and does not reflect all the available options of a TopWorx switchbox. Refer to the full ordering guide for full product options.

Product part number example:
DXP-L21GNEB1A21

TOPWORX™ D-SERIES, DXP, DXR, DXS ORDERING GUIDE

Choose one option from each category to build a complete model number.
 Consult factory for options not shown below.

Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft	Conduit Entries	
<p>DXP Tropicalized Aluminum</p> <p>DXR Composite Resin (*S) Silicone O-Rings only; Stainless steel conduit entries) (Area Classification "0" only available with ATEX/IECEX approvals) 232</p> <p>DXS 316 Stainless steel (Only available with "R" or "M" shaft options)</p>	<p>Bus Network AS AS-Interface (Area class cannot be 0) *FF Foundation Fieldbus w/ 0-10K Pot *FL Foundation Fieldbus w/(2) SPDT G/O Switches *FP Foundation Fieldbus w/(2) SPDT G/O Switches and 0-10K Pot DN DeviceNet (Area class cannot be 0)</p> <p>Partial Stroke Test ES ES3/PS1 Module w/G Switch (Area class cannot be 0)</p> <p>G/O Switches L2 2(G/O Switches SPDT hermetic seal L4 4(G/O Switches SPDT hermetic seal(not available with pilot) Z2 2(Z/G Switches DPDT hermetic seal Z4 4(G/O Switches DPDT hermetic seal, (not available with pilot)</p> <p>Mechanical Switches (Area class cannot be 2, DXR with G approval not available with pilot) M4 (4)Mech SPDT M6 (6)Mech SPDT T2 (2)Mech DPDT K2 (2)Mech SPDT gold contacts K4 (4)Mech SPDT gold contacts</p> <p>Proximity Switches R2 (2) SPDT Prox switches R4 (4) SPDT Prox switches (R2 & R4 only available with DXR and Ex me certification)</p> <p>Inductive Sensors E2 (2) p11 NJ2-V3-N</p> <p>Inductive NAMUR E4 (4) p11 NJ2-V3-N inductive NAMUR</p> <p>Analogue Output (Available with 2-switch options only for L,Z,M,K,E,T) _X 4-20mA transmitter _H 4-20mA transmitter with HART (Not available with switch option T; LH not available w/pilot valve) (LH, ZH not available with DXS) Example: LH=(2) G/O Switches with HART™ transmitter * "FE, "FL and "FP with Area Classification "0" has an ib protection</p>	<p>0 Intrinsically safe (Bus/sensor cannot be AS, DN, ES, or _X; Requires appropriate L.S. barrier) -North America Class I Div 1&2 Groups A, B, C, D Type 4, 4X -ATEX/IECEX Zone 0 IICG, T6/T4 Ex ib IIC Ex tb IIC IP66/67 (Foundation Fieldbus) Zone 1, Ex ib IIC T4, IP67</p> <p>1 Explosion proof / Flame proof (DXP/S only) -North America Class I Div 1 Groups C, D; Class II Div 2, Groups A, B, C, D, (Groups A & B must be hermetically sealed) Type 4, 4X -ATEX/IECEX Zone 1, IICG, IICG, T6/T4/T3 Ex d IIB-HI2 Ex tb IIC IP66/67 (O-Rings must be 5 for DUST certification)</p> <p>2 Non-incendive (Bus/sensor must be L, Z, P, E, AS, FF, _X, _H, _E or DN) -North America Class I Div 2 Groups A, B, C, D; Class II Div 2 Groups F, G -ATEX (DXP/S only) IICG Ex nA nC tb, IP66/67 (O-Rings must be 5 for DUST certification)</p> <p>C General Purpose Type 4, 4X (not available with DXR with mechanical switches)</p> <p>C Flameproof (DXR not available with valve; Conduit entries must be E or M) ATEX/IECEX IICG, IICG, T6/T4/T3 Ex d IIC Ex tb IIC IP66/67</p> <p>M Flameproof (only available with R2 and R4 sensor options) (DXR only) ATEX/ IECEX Zone 1, IICG Ex tb IIC T4, Ex tb IIC T66 IP67</p> <p>W No approval; Type 4, 4X IP66/68</p> <p>For complete information on certification options, go to www.topworx.com and download the applicable product certificate.</p>	<p>G Standard 90° Green OPEN, Red CLOSED</p> <p>R Standard 90° Green CLOSED, Red OPEN</p> <p>B 90° Black OPEN, Yellow CLOSED, No Adder</p> <p>Y 90° Yellow OPEN, Black CLOSED</p> <p>1 3 way, 90° L Port</p> <p>3 3 way, 90° T Port</p> <p>5 3 way, 90° T Port</p> <p>7 3 way, 180° T Port 3 position</p> <p>9 3 way, 180° T Port 3 position</p>	<p>S 1/2" DD 304 stainless steel</p> <p>N NAMUR 304 stainless steel</p> <p>R 1/2" DD 316 stainless steel (Shaft & external hardware)</p> <p>M NAMUR 316 stainless steel (Shaft & external hardware)</p>	<p>DXP/DXS Metal Conduit Entries E (2) 3/4" NPT</p> <p>4 (2) 3/4" NPT (2) 1/2" NPT</p> <p>M (2) M20</p> <p>3 (4) M20</p> <p>6 (4) 3/4" NPT</p> <p>DXR Stainless Conduit Entries Required for North American approval P (2) 1/2" NPT</p> <p>E (2) 3/4" NPT</p> <p>M (2) M20</p> <p>DXS Resin Conduit Entries A (2) 1/2" NPT</p> <p>B (2) 3/4" NPT</p> <p>C (2) M20</p>	
<p>Ordering Guide Fill in the boxes to create your ordering number.</p>	<p>Enclosure D X P</p>	<p>Bus/Sensor L 2</p>	<p>Area Classification 1</p>	<p>Visual Display G</p>	<p>Shaft N</p>	<p>Conduit Entries E</p>

When configuring a valve monitor, the part number is considered complete once the “o-ring” option is specified and the rest of the options can be left blank, i.e., DXP-L21GNEB. If a on/off valve controller is configured the part number is considered complete once the “Valve Cv” option is specified, i.e, DXP-L21GNEB1A2. “Regional Certs” and “Manual Override” options can be left blank or specified. If a “Regional Certs” options is specified and “Manual Override” is left blank the part number will look as follows: DXP-L21GNEB1A20N.

Product part number example:
DXP-L21GNEB1A21

Ordering Examples: DXP-FFOGNEBPA2 DXP-L21GNEB1A2					
O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs
B Buna-N No Adder S Silicone No Adder NOTE: For Temperatures below -40°C, Silicone o-rings are recommended	Blank No pilot device(s) 1 (1) 24 Vdc pilot, fail open/closed 0.5 W (non-I.S.) 0.5W (I.S) 2 (2) 24 Vdc pilots, fail last position 0.5W (non-I.S) 0.5W (I.S) 4 (1) 220 Vac pilot, 2W, fail open/closed 5 (2) 220 Vac pilots, 2W, fail last position 7 (1) 110 Vac pilot, 1.1W, fail open/closed 8 (2) 110 Vac pilots, 1.1W, fail last position P (1) piezo pilot, fail open/closed (FF only) R (2) piezo pilots, fail last position (FF only)	Blank No Spool Valve A Aluminum Hard coat anodized 6 316 Stainless steel	Blank No Spool Valve 2 6 Cv (1/4" NPT Ports) 3 3.7 Cv (1/2" NPT Ports) (For manual override consult factory) (Spool Valve A) (Spool Valve 6)	Blank No override 1 Single Pushbutton Momentary/Latching 2 Dual Pushbutton Momentary/Latching T Partial stroke test button with lockable cover (Sensor ES only) (Not avail w/ Area Class C) (DXP'S - Conduit Entries 4 or 3 only, DXR - consult factory)	Blank No Regional Cert B InMetro (Area Class 0,1 and C only) N NEPSI F FISCO (Bus/Sensor must be FF; Area Class must be 0) K KOSHA (DXP'S only) (Area class 1 or C) R EAC (DXP'S only)(O-Rings must be B or S, B=Gas Approved,S= Gas/Dust Approved) A ANZEX Ex d IIC, Ex d IIB+H2 (DXP'S only) P PESO (India) (Gas approval only)
O-Rings B	Pilot 1	Spool A	Valve Cv 2	Override 1	Regional Certs N/A