Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Explosion Proof 0-10V Rotary Dimmer Switch - Class I, II, III - Copper free Aluminum - NEMA 4X
EXP-DRW-N4X

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).

EXP-DRW-N4X Explosion Proof 0-10V Rotary Dimmer Switch
Listing: United States, Canada
Switch Type: 0-10V Rotary Dimmer Switch
Dimensions: 5.75" x 8.06" x 6.31"
Weight: 11.2 lbs
Configuration: Front Mounted Rotary Switch

Max Lamps per Switch: 25

Grounding: Single Internal Housing Ground Screw

Ambient Temp Rating: -20°C to +65°C
Unit Materials: Copper-free Aluminum

Mounting: External Mounting Lugs on Body

Hub Quantity: (2) Feed Through or (1) Dead End

Hub Size: 1/2" or 3/4"

Color: Gray

Ratings/Approvals
Class I, Divisions 1 & 2 Groups B, C, D
Class I, Zones 1 & 2 Groups IIB+H2, IIA
Class II, Divisions 1 & 2 Groups E, F, G
Class III
NEMA Type 3, 4, 4X

Special Orders- Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-214-616-6180

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

Made in Texas

The Larson Electronics EXP-DRW-N4X Explosion Proof Dimmable Rotary Switch is suitable for Class I, II and III rated combustible work sites. This 0-10V dimmable explosion proof switch, which carries a NEMA 4X rating, provides a safe and secure method for operators to adjust the brightness of explosion proof lights connected to the switch in order to best accommodate the situation or workplace while maintaining safety within hazardous environments.
NOTE: This 0-10V Explosion Proof Rotary Dimmer Switch only works to adjust the brightness level of connected lights. It does not power lamps on or off.

The EXP-DRW-N4X is ideal for operators seeking a high quality explosion proof switch rated for use in hazardous areas designated Class, I, II and III environments. This NEMA 4X rated switch is easily wall mounted via integral mounting tabs at two corners of the housing. Operators can choose between two hub sizes of either 1/2" or 3/4" and either a feed through or dead end configuration.

The explosion proof switch cover and housing box is constructed of copper free aluminum for superior performance and durability. A NEMA 4X waterproof rating indicates that the enclosure provides a degree of protection to operators against access to hazardous parts, provides a degree of protection against environmental

1

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

concerns such as the ingress of water, provides additional protection against corrosion and that the enclosure will not be damaged by the external formation of ice.

This explosion proof dimmable rotary switch offers operators smooth, flicker-free dimming of lights for precise control of brightness level while maintaining the power delivered to the lamp. The EXP-DRW-N4X explosion proof dimmer switch also works to save energy while reducing energy costs and helping to extend the life of the connected lamp. The dimmable rotary switch features surge protection technology, advanced heat sinks to extend the service life of the switch and protection from possible interference from radios and other equipment. The unit is also very user friendly as the position of the rotary dial indicates the perceived light level.

Note on Voltage/Amperage: This unit is a dimmer ONLY. This switch does not carry the voltage load of the power source for the lamps being controlled. Because of this, there is no amperage rating because no amperage is flowing through the unit. This is NOT a combination on/off dimmer switch. We do offer a combination on/off switch with rotary dimmer. 0-10V dimming is a control voltage of 0-10V compatible devices. The voltage range is 0-10V, with 0V being completely off and 10V being full power. The max resistance is calculated for up to 25 devices being controlled by this unit. Since the switch is not carrying the load for power or make/break sequence of turning the units on/off, it does not matter what type of dimmable devices are powered from this as long as they are 0-10V capable and have the appropriate 0-10V dimming control wires (commonly seen as grey/violet wires). This dimmer is NOT compatible with incandescent lamps or screw-in compact fluorescent lamps. This unit IS compatible with LED, HID, fluorescent, compact fluorescent, induction, and any type of lamp that the power supply or ballast is 0-10V capable and has 0-10V control wires.

Hubs: These dimmer switches are not factory sealed and require external sealing fittings. This explosion proof switch is available with either 1/2" or 3/4" NPT tapped hubs. The conduit openings are provided on the top and bottom of the unit in feed through versions while dead end versions have a single conduit hub, providing easy and secure connection to main power line supplies.

This rotary dimmer switch is compatible with explosion proof dimmable light fixtures with V+ and V- dimming control wires. This dimmer is not compatible with voltage dimming, the driver/ballast must have 0-10V control wires for dimming to be compatible. The EXP-DRW-N4X-N4X is suitable for use in environments where combustible dusts and particulates may be present as well as any other hazardous locations.

Mounting: External mounting lugs provide simple and secure mounting of the unit to walls and flat surfaces.

Suggested Applications: Manufacturing, Industrial, Warehouse, Lighting, Lighting, Wet areas or Locations Where Combustible Dust is Present.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Options:

EXP-DRW-N4X-Hub Config-Configuration
Example: EXP-DRW-N4X-0.5IN-FT

Hub Config	
1/2 INCH	-0.5IN
3/4 INCH	-0.75IN

Configuration	
FEED-THRU	-FT
DEAD-END	-DE

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Links (Click on the below items to view):

- Operations Manual

- HigResPic1

- Video1

- Video2

- ISO 9001 Certification

- Business Certificate

- Shipping Time Map