

DX



Features and Ratings	p. 82
Certifications and Testing	p. 83
DX Operation	p. 84
DX20	p. 85
DX30	p. 86
DX60	p. 87
DX100	p. 88
Dimensions	p. 89



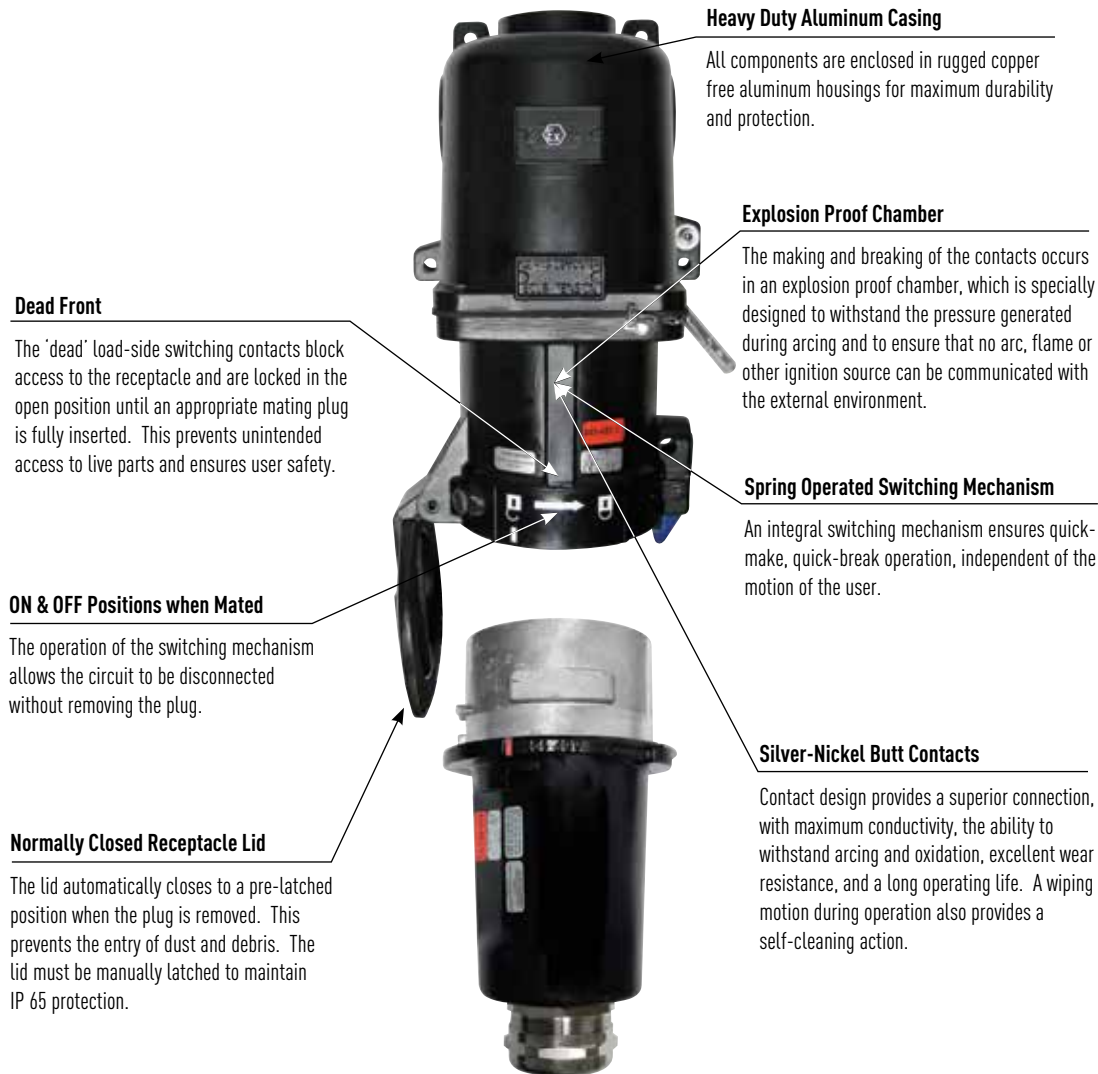
## Hazardous duty rated plugs and receptacles

DX Series plugs and receptacles are heavy duty metallic devices that are a good choice for refineries, petroleum platforms, chemical and pharmaceutical plants, grain silos and other locations where exposure to flammable gases and/or dusts is likely to occur. DX's are ATEX rated and they have also been tested and approved by ETL for operation under load in a gaseous environment (14.5% acetylene). This is one of the key performance tests required for UL Class 1, Division 1 products.

### Main Advantages

- ▶ Rugged Construction, cost effective design
- ▶ Rated for Zone 1 and Zone 21 applications

# Product Features



## Operating Instructions



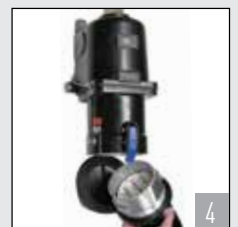
When a DX is connected there is total safety.



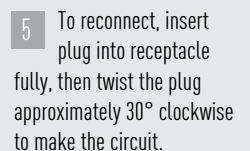
Pressing the pawl while turning the plug about 30° counterclockwise causes the circuit to be broken.



Press the pawl while withdrawing the plug from the receptacle. This is done in complete safety because the circuit is already dead.



The plug and receptacle are separated. The safety shutter prevents access to live parts.



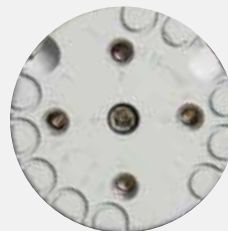
To reconnect, insert plug into receptacle fully, then twist the plug approximately 30° clockwise to make the circuit.

## General Ratings

<b>Amperage</b>	20 to 100A
<b>Voltage</b>	600 VAC Max
<b>Frequency</b>	50-400 Hz
<b>Environmental</b>	IP65
<b>Temperature</b>	min -13°F/max 140°F* (DX20/DX30) min -40°F/max 140°F* (DX60/DX100)

## Highlighted Feature

### Dead Front



The dead front on the DX receptacle provides protection from accidental tool and wire insertion.

# DX Certifications

## Hazardous Duty Certification

### ATEX

#### II 2 G/D DUST T85°C\* Ex de IIC T6\*

**II** – Indicates suitability for installation in surface applications (as opposed to underground mine applications).

**2** – Indicates suitability for use where a high level of protection is required and where the presence of an explosive atmosphere is likely to occur (Zone 1 and Zone 21 environments).

**G/D** – Indicates suitability for installation in areas that may contain flammable gases, vapors/mists, or dusts.

**T85°C\*** – Indicates a maximum surface temperature of the product of 85°C, at 40°C ambient.

**Ex de** – Indicates that explosion protection is provided with (e) increased safety in the conductor termination area, and (d) explosion proof chambers for making and breaking the current that can withstand the pressure of internal ignition and that prevent arcs, flame or other ignition events from being communicated to the surrounding atmosphere.

**IIC** – Indicates suitability for installation in areas where exposure to any type of gas, including the most dangerous subdivision C gases may occur.

**T6\*** – Temperature class – the maximum product surface temperature is 185°F (85°C) for ambient temperature of 104°F (40°C).

ATEX & IECEx certification was performed by LCIE.

\* Temperature ratings vary depending on product and ambient temperature. See specific product section for temperature ratings.

## Electrical Performance Testing

Key Performance Tests Passed				
Model	Mechanical Endurance	Electrical Endurance <sup>1</sup>	Overload Testing <sup>2</sup>	Dielectric Test
DX20	-	5000 Operations	50 Operations	2 x V (rated) + 1000V
DX30	1000 Cycles	1000 Operations	50 Operations	2 x V (rated) + 1000V
DX60	1000 Cycles	1000 Operations	50 Operations	2 x V (rated) + 1000V
DX100	1000 Cycles	1000 Operations	50 Operations	2 x V (rated) + 1000V

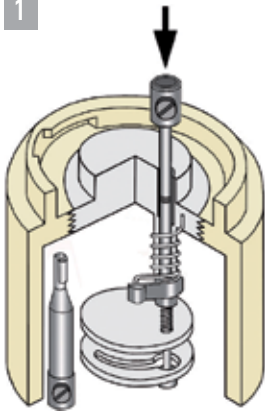
<sup>1</sup> @ 100% of rated current and voltage and 0.6 power factor

<sup>2</sup> @ 125% of rated current, 110% of rated voltage, & 0.6 power factor

# DX Operation

## Connection

1

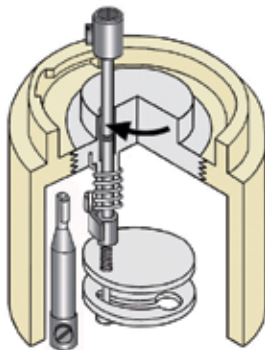


### Insertion of the Plug

As the plug contact is inserted, it engages and depresses the 'dead' switching contact.

This releases the locking mechanism. The switching contact is free to operate.

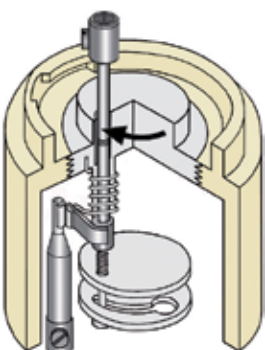
2



### Charging the Operating Spring

Clockwise rotation of the inserted plug winds the operating spring and rotates the switching contact into position to engage with the live receptacle contact.

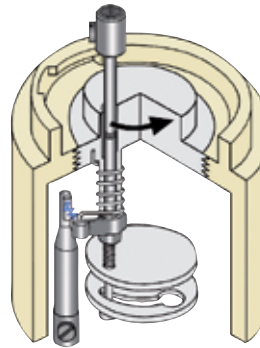
3



### Making the Circuit

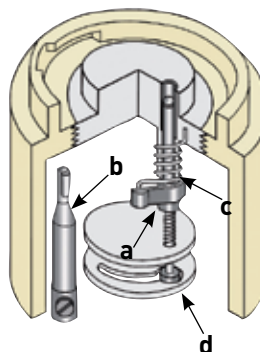
With the final few degrees of rotation, the switching contact is released and force from the spring quickly drives it into engagement with the live receptacle contact.

## Disconnection



After depressing the pawl, the plug is rotated in a counter-clockwise direction. This frees the switching contact for operation and the release of the remaining spring tension causes a quick breaking of the contacts. The plug may now be removed, if desired.

## Receptacle with Plug Disconnected



- a. **Switching Contact**  
Shown in the open (dead) position
- b. **'Live' Receptacle Contact**  
Accessibility is denied
- c. **Operating Spring**  
Shown with tension released
- d. **Mechanical Locking Device**  
Blocks contact operation

**DX20**

# DX – 20A

## Hazardous Location Plugs & Receptacles

### Ratings

- Voltage**  
600 VAC
- Environmental Ratings**  
IP65
- Temperature Range**  
Min -13°F / Max 140°F
- Wiring Capacity**  
Min 14 AWG Max 6 AWG  
\* Based on THHN wire sizes
- Listings**  
ATEX, IECEx
- DX20 Ratings Label**

MARECHAL ELECTRIC MAROMME  
 Ⓢ II2 G/D Ex de IIC tD A21  
 -25°C ≤ Ta ≤ +60°C T5 T84°C  
 -25°C ≤ Ta ≤ +50°C T6 T74°C  
 IECEx LCI 09.0014 / LCIE 05 ATEX 6127

### XXX Suffix / Cable Range

XXX (Suffix #)	Cable Range
-20M	.31" - .51"
-25M	.35" - .63"

### XX Suffix / NPT Size

NPT Thread Size	XX (Suffix #)
1/2"	-12
3/4"	-34
1"	-1

NPT sizes are determined by the cable diameter and third party cord grip.

### Accessories



For Male Devices Only

**Protective Cap**

**Part #**

DX20 26-2A126



**Surface Box**

**Part #**

1/2" 26-2A023-12

3/4" 26-2A023-34

1" 26-2A023-1

### Plug (male inlet w/handle)



Replace XXX or XX with suffix number to indicate desired cable range (see chart)

Voltage	Polarity	Part # Metal
125V	1P+N+G	26-21075-XXX
208V	2P+G	26-21162-XXX
208V	3P+G	26-21163-XXX
208V	3P+N+G	26-21167-XXX
250V	2P+G	26-21072-XXX
250V	3P+G	26-21073-XXX
250V	2P+N+G	26-21076-XXX
277V	1P+N+G	26-21045-XXX
480V	2P+G	26-21042-XXX
480V	3P+G	26-21043-XXX
480V	3P+N+G	26-21047-XXX
600V	3P+G	26-21143-XXX

### Inlet w/cap on box (male)



or

Voltage	Polarity	Part # Metal
125V	1P+N+G	26-26075-XX
208V	2P+G	26-26162-XX
208V	3P+G	26-26163-XX
208V	3P+N+G	26-26167-XX
250V	2P+G	26-26072-XX
250V	3P+G	26-26073-XX
250V	2P+N+G	26-26076-XX
277V	1P+N+G	26-26045-XX
480V	2P+G	26-26042-XX
480V	3P+G	26-26043-XX
480V	3P+N+G	26-26047-XX
600V	3P+G	26-26143-XX

Other voltage configurations are available – contact customer service at 800.433.7642.

### Connector Receptacle on box Receptacle

(female recept w/handle) (female) (female)



or



or



Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
125V	1P+N+G	26-23075-XXX	26-20075-XX	26-24075
208V	2P+G	26-23162-XXX	26-20162-XX	26-24162
208V	3P+G	26-23163-XXX	26-20163-XX	26-24163
208V	3P+N+G	26-23167-XXX	26-20167-XX	26-24167
250V	2P+G	26-23072-XXX	26-20072-XX	26-24072
250V	3P+G	26-23073-XXX	26-20073-XX	26-24073
250V	2P+N+G	26-23076-XXX	26-20076-XX	26-24076
277V	1P+N+G	26-23045-XXX	26-20045-XX	26-24045
480V	2P+G	26-23042-XXX	26-20042-XX	26-24042
480V	3P+G	26-23043-XXX	26-20043-XX	26-24043
480V	3P+N+G	26-23047-XXX	26-20047-XX	26-24047
600V	3P+G	26-23143-XXX	26-20143-XX	26-24143

Other voltage configurations are available – contact customer service at 800.433.7642.



**DX – 30A****Hazardous Location Plugs & Receptacles****DX30****Plug**  
(male inlet w/handle)

Replace XXX or XX  
with suffix number to  
indicate desired cable  
range (see chart)

or

**Inlet w/cap on box (male)**

Voltage	Polarity	Part # Metal
125V	1P+N+G	26-31075-XXX
208V	2P+G	26-31162-XXX
208V	3P+G	26-31163-XXX
208V	3P+N+G	26-31167-XXX
250V	2P+G	26-31072-XXX
250V	3P+G	26-31073-XXX
250V	2P+N+G	26-31076-XXX
277V	1P+N+G	26-31045-XXX
480V	2P+G	26-31042-XXX
480V	3P+G	26-31043-XXX
480V	3P+N+G	26-31047-XXX
600V	3P+G	26-31143-XXX

Voltage	Polarity	Part # Metal
125V	1P+N+G	26-36075-XX
208V	2P+G	26-36162-XX
208V	3P+G	26-36163-XX
208V	3P+N+G	26-36167-XX
250V	2P+G	26-36072-XX
250V	3P+G	26-36073-XX
250V	2P+N+G	26-36076-XX
277V	1P+N+G	26-36045-XX
480V	2P+G	26-36042-XX
480V	3P+G	26-36043-XX
480V	3P+N+G	26-36047-XX
600V	3P+G	26-36143-XX

Other voltage configurations are available – contact customer service at 800.433.7642.

**Connector**  
(female recept w/handle)**Receptacle on box**  
(female)

or

**Receptacle**  
(female)

or

Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
125V	1P+N+G	26-33075-XXX	26-30075-XX	26-34075
208V	2P+G	26-33162-XXX	26-30162-XX	26-34162
208V	3P+G	26-33163-XXX	26-30163-XX	26-34163
208V	3P+N+G	26-33167-XXX	26-30167-XX	26-34167
250V	2P+G	26-33072-XXX	26-30072-XX	26-34072
250V	3P+G	26-33073-XXX	26-30073-XX	26-34073
250V	2P+N+G	26-33076-XXX	26-30076-XX	26-34076
277V	1P+N+G	26-33045-XXX	26-30045-XX	26-34045
480V	2P+G	26-33042-XXX	26-30042-XX	26-34042
480V	3P+G	26-33043-XXX	26-30043-XX	26-34043
480V	3P+N+G	26-33047-XXX	26-30047-XX	26-34047
600V	3P+G	26-33143-XXX	26-30143-XX	26-34143

Other voltage configurations are available – contact customer service at 800.433.7642.

**Ratings**

- **Voltage**  
600 VAC
- **Environmental Ratings**  
IP65
- **Temperature Range**  
Min -13°F / Max 140°F
- **Wiring Capacity**  
Min 14 AWG Max 6 AWG  
\* Based on THHN wire sizes
- **Listings**  
ATEX, IECEx
- **DX30 Ratings Label**

MARECHAL ELECTRIC MAROMME  
 Ⓢ II2 G/D Ex de IIC tD A21  
 -25°C ≤ Ta ≤ +60°C T5 T84°C  
 -25°C ≤ Ta ≤ +50°C T6 T74°C  
 IECEx LCI 09.0014 / LCIE 05 ATEX 6127

**XXX Suffix / Cable Range**



XXX (Suffix #)	Cable Range
-25M	.35" - .63"
-32M	.47" - .83"

**XX Suffix / NPT Size**

NPT Thread Size	XX (Suffix #)
1/2"	-12
3/4"	-34
1"	-1

NPT sizes are determined by the cable diameter and third party cord grip.

**Accessories**

	<b>Protective Cap</b>
For Male Devices Only	
<b>Part #</b>	
DX30	26-3A126
	<b>Surface Box</b>
<b>NPT</b>	<b>Part #</b>
1/2"	26-3A023-12
3/4"	26-3A023-34
1"	26-3A023-1

**DX60**

# DX – 60A

## Hazardous Location Plugs & Receptacles

**Ratings**

- **Voltage**  
600 VAC
- **Environmental Ratings**  
IP65
- **Temperature Range**  
Min -40°F / Max 140°F
- **Wiring Capacity**  
Min 8 AWG Max 2 AWG  
\* Based on THHN wire sizes
- **Listings**  
ATEX + IECEx
- **DX60 Ratings Label**

MARECHAL ELECTRIC MAROMME  
 Ⓢ II 2 G/D Ex de IIC tD A21  
 -40°C ≤ Ta ≤ +60°C T5 T90°C  
 -40°C ≤ Ta ≤ +50°C T6 T80°C  
 IECEx LCI 09.0015 / LCIE 04 ATEX 6038

**XXX Suffix / Cable Range**

XXX (Suffix #)	Cable Range
-32M	.47" - .83"
-40M	.63" - 1.06"

**XX Suffix / NPT Size**

NPT Thread Size	XX (Suffix #)
1"	-1
1 1/4"	-114
1 1/2"	-112
2"	-2

NPT sizes are determined by the cable diameter and third party cord grip.

**Accessories**

**Protective Cap**

For Male Devices Only

**Part #**



**Metal Wall Box**

**NPT**

**Part #**

1"	26-6A023-1
1 1/4"	26-6A023-114
1 1/2"	26-6A023-112
2"	26-6A023-2

### Plug (male inlet w/handle)

Replace XXX or XX with suffix number to indicate desired cable range (see chart)



Voltage	Polarity	Part # Metal
125V	1P+N+G	26-61075-XXX
208V	2P+G	26-61162-XXX
208V	3P+G	26-61163-XXX
208V	3P+N+G	26-61167-XXX
250V	2P+G	26-61072-XXX
250V	3P+G	26-61073-XXX
250V	2P+N+G	26-61076-XXX
277V	1P+N+G	26-61045-XXX
480V	2P+G	26-61042-XXX
480V	3P+G	26-61043-XXX
480V	3P+N+G	26-61047-XXX
600V	3P+G	26-61143-XXX

### Inlet w/cap on box (male)



or

Voltage	Polarity	Part # Metal
125V	1P+N+G	26-66075-XX
208V	2P+G	26-66162-XX
208V	3P+G	26-66163-XX
208V	3P+N+G	26-66167-XX
250V	2P+G	26-66072-XX
250V	3P+G	26-66073-XX
250V	2P+N+G	26-66076-XX
277V	1P+N+G	26-66045-XX
480V	2P+G	26-66042-XX
480V	3P+G	26-66043-XX
480V	3P+N+G	26-66047-XX
600V	3P+G	26-66143-XX

Other voltage configurations are available – contact customer service at 800.433.7642.

### Connector (female recept w/handle)



or

### Receptacle on box (female)



or

### Receptacle (female)



Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
125V	1P+N+G	26-63075-XXX	26-60075-XX	26-64075
208V	2P+G	26-63162-XXX	26-60162-XX	26-64162
208V	3P+G	26-63163-XXX	26-60163-XX	26-64163
208V	3P+N+G	26-63167-XXX	26-60167-XX	26-64167
250V	2P+G	26-63072-XXX	26-60072-XX	26-64072
250V	3P+G	26-63073-XXX	26-60073-XX	26-64073
250V	2P+N+G	26-63076-XXX	26-60076-XX	26-64076
277V	1P+N+G	26-63045-XXX	26-60045-XX	26-64045
480V	2P+G	26-63042-XXX	26-60042-XX	26-64042
480V	3P+G	26-63043-XXX	26-60043-XX	26-64043
480V	3P+N+G	26-63047-XXX	26-60047-XX	26-64047
600V	3P+G	26-63143-XXX	26-60143-XX	26-64143

Other voltage configurations are available – contact customer service at 800.433.7642.

**DX – 100A****Hazardous Location Plugs & Receptacles****DX100****Plug**  
(male inlet w/handle)

Replace XXX or XX  
with suffix number to  
indicate desired cable  
range (see chart)

or

**Inlet w/cap on box (male)**

Voltage	Polarity	Part # Metal
125V	1P+N+G	26-91075-XXX
208V	2P+G	26-91162-XXX
208V	3P+G	26-91163-XXX
208V	3P+N+G	26-91167-XXX
250V	2P+G	26-91072-XXX
250V	3P+G	26-91073-XXX
250V	2P+N+G	26-91076-XXX
277V	1P+N+G	26-91045-XXX
480V	2P+G	26-91042-XXX
480V	3P+G	26-91043-XXX
480V	3P+N+G	26-91047-XXX
600V	3P+G	26-91143-XXX

Voltage	Polarity	Part # Metal
125V	1P+N+G	26-96075-XX
208V	2P+G	26-96162-XX
208V	3P+G	26-96163-XX
208V	3P+N+G	26-96167-XX
250V	2P+G	26-96072-XX
250V	3P+G	26-96073-XX
250V	2P+N+G	26-96076-XX
277V	1P+N+G	26-96045-XX
480V	2P+G	26-96042-XX
480V	3P+G	26-96043-XX
480V	3P+N+G	26-96047-XX
600V	3P+G	26-96143-XX

Other voltage configurations are available – contact customer service at 800.433.7642.

**Connector**  
(female recept w/handle)**Receptacle on box**  
(female)

or

**Receptacle**  
(female)

or

Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
125V	1P+N+G	26-93075-XXX	26-90075-XX	26-94075
208V	2P+G	26-93162-XXX	26-90162-XX	26-94162
208V	3P+G	26-93163-XXX	26-90163-XX	26-94163
208V	3P+N+G	26-93167-XXX	26-90167-XX	26-94167
250V	2P+G	26-93072-XXX	26-90072-XX	26-94072
250V	3P+G	26-93073-XXX	26-90073-XX	26-94073
250V	2P+N+G	26-93076-XXX	26-90076-XX	26-94076
277V	1P+N+G	26-93045-XXX	26-90045-XX	26-94045
480V	2P+G	26-93042-XXX	26-90042-XX	26-94042
480V	3P+G	26-93043-XXX	26-90043-XX	26-94043
480V	3P+N+G	26-93047-XXX	26-90047-XX	26-94047
600V	3P+G	26-93143-XXX	26-90143-XX	26-94143

Other voltage configurations are available – contact customer service at 800.433.7642.

**Ratings**

- **Voltage**  
600 VAC
- **Environmental Ratings**  
IP65
- **Temperature Range**  
Min -40°F / Max 140°F
- **Wiring Capacity**  
Min 4 AWG Max 2 AWG  
\* Based on THHN wire sizes
- **Listings**  
ATEX
- **DX100 Ratings Label**

MARECHAL ELECTRIC MAROMME  
 Ⓢ II 2 G/D Ex de IIC tD A21  
 -40°C ≤ Ta ≤ +60°C T5 T90°C  
 -40°C ≤ Ta ≤ +50°C T6 T80°C  
 IECEx LCI 09.0015 / LCIE 04 ATEX 6038

**XXX Suffix / Cable Range**

XXX (Suffix #)	Cable Range
-32M	.47" - .83"
-40M	.63" - 1.06"
-50M	.91" - 1.38"
-63M	1.42" - 1.89"

**XX Suffix / NPT Size**

NPT Thread Size	XX (Suffix #)
1"	-1
1 1/4"	-114
1 1/2"	-112
2"	-2

NPT sizes are determined by the cable diameter and third party cord grip.

**Accessories****Protective Cap**

For Male  
Devices Only

**Part #**

DX100 26-9A126

**Metal Wall Box**

NPT Part #

1"	26-9A023-1
1 1/4"	26-9A023-114
1 1/2"	26-9A023-112
2"	26-9A023-2