

# HAZARDOUS LOCATION

## Plugs & Receptacles



MELTRIC offers a wide range of hazardous location devices for use in power supply and control applications. Each device features MELTRIC's butt-style contact technology that maximizes durability and performance.



**DXN P. 186**

**POLY POWER CONNECTORS**

- ATEX or cCSAus rated
- Horsepower rated
- Compact design
- 20A, 30A and 60A sizes



**DR P. 216**

**POWER CONNECTORS**

- cCSAus rated, Zone 2 and Class I Div 2
- Robust metal construction for 60A and above
- 30A, 50A, 100A and 250A sizes



**DXA1 P. 198**

**POWER CONNECTORS**

- ATEX or cCSAus rated
- Robust metal construction
- Compact design
- 20A sizes



**DSDC P.224**

**POWER CONNECTORS**

- cCSAus rated, Zone 2 and Class I Div 2
- Robust metal construction for 60A and above
- 20A, 30A, 60A, 100A, and 200A sizes



**DSN/DS P. 204**

**POWER CONNECTORS**

- cCSAus rated, Zone 2 and Class I Div 2
- Horsepower rated
- Robust metal construction for 60A and above
- 20A, 30A, 60A, 100A, 150A and 200A sizes



**DX P. 226**

**POWER CONNECTORS**

- ATEX Rated for Zone 1 and Zone 21
- Rugged metal construction
- 20A, 32A, 63A, and 125A sizes
- Up to 600V, IP65

# The MELTRIC Advantage

MELTRIC offers a range of hazardous duty rated devices for use in power supply and control applications. Each device features MELTRIC's butt-style contact technology that maximizes durability and performance. Depending on application needs, most devices can be configured for use in in-line and wall mounted applications.

Common industry applications:

- ▶ Chemical plants
- ▶ Pharmaceutical plants
- ▶ Oil and Gas facilities
- ▶ Grain silos
- ▶ Wood processing plants
- ▶ Plastics plants
- ▶ Wastewater plants



"Flush Mounted" DX Series plug and receptacle



"InLine" DXN Series plug and connector

## Explanation of Area Classifications and Relevant Listings

The hazardous location area classifications and ratings used in most of North America differ from those used in most of the rest of the world. The North American approach has historically been to use a Class and Division system to identify the different levels of explosion hazards, while the international approach is based on Zones. In recent years, there has been recognition of the Zone classifications in the NEC and CEC, but the vast majority of the area classifications in North America continue to be based on the Class and Division system. The table below shows the relationship between the Class/Division and Zone based classification systems.

### Gas

Explosive atmosphere	Continuously present	May occur in normal conditions	May appear accidentally or in abnormal conditions
Class & Division	Class I, Division 1		Class I, Division 2
Zone	Zone 0	Zone 1	Zone 2

### Dust

Explosive atmosphere	Continuously present	May occur in normal conditions	May appear accidentally or in abnormal conditions
Class & Division	Class II, Division 1		Class II, Division 2
Zone	Zone 20	Zone 21	Zone 22

Meltric offers hazardous locations products rated for use in Zone 1, Zone 2, Zone 21, Zone 22, Class I Division 2 and Class 2 Division 2 areas as shown by the yellow highlighted cells in the table above. The area classifications, ratings and certifications that apply to each of the various products is shown in the following product specification table.

# Selecting the Right Hazardous Location Rated Plug & Receptacle

## Hazardous Duty Product Specifications

Zone 1/21 & 2/22, Class I & II Division 2 Devices												
Product Type	Housing Material	Maximum Number of Contacts	Electrical Ratings				Certifications	Environmental Rating	Wiring Capacity		Wiring Connection	Catalog Page
			Max VAC	Amperage	Current Interruption	HP@Max Voltage			Min / Max			
DXN20	Polyester	3P+N+G	600	20	YES	5	cCSAus	IP66/IP67	16 awg	10 awg	Screw	190
DXN30	Polyester	3P+N+G	600	30	YES	15	cCSAus	IP66/IP67	14 awg	6 awg	Screw	192
DXN30	Polyester	3P+N+G + 2 aux	550	30	YES	15	cCSAus	IP66/IP67	14 awg	6 awg	Screw	192
DXN60	Polyester	3P+N+G	600	60	YES	20	cCSAus	IP66/IP67	10 awg	4 awg	Screw	194
DXN60	Polyester	3P+N+G + 2 aux	550	60	YES	20	cCSAus	IP66/IP67	10 awg	4 awg	Screw	194
DXA1	Metal	3P+N+G	600	20	YES	5	cCSAus	IP66/IP67	16 awg	10 awg	Screw	200
SPeX	Polyester	1	1000	680	NO	-	cCSAus	IP66	2/0 awg	750mcm	Lug	244

Zone 2, Class I Division 2 Devices												
Product Type	Housing Material	Maximum Number of Contacts	Electrical Ratings				Certifications	Environmental Rating	Wiring Capacity		Wiring Connection	Catalog Page
			Max VAC	Amperage	Current Interruption	HP@Max Voltage			Min / Max			
DS20	Polyester	3P+N+G + 2 aux	600	20	NO	10	cCSAus	Type 4X	14 awg	8 awg	Screw	204
DS30	Polyester	3P+N+G + 4 aux	600	30	NO	15	cCSAus	Type 4X	14 awg	4 awg	Screw	206
DS60	Metal	3P+N+G + 4 aux	600	60	NO	25	cCSAus	Type 4X	10 awg	2 awg	Screw	208
DS100C	Metal or Poly	3P+N+G + 4 aux	600	100	NO	50	cCSAus	Type 4X	10 awg	2 awg	Screw	210
DSN150	Metal	3P+N+G + 6 aux	600	150	NO	75	cCSAus	Type 4X	4 awg	2/0 awg	Screw	212
DS200	Metal	3P+N+G + 6 aux	600	200	NO	100	cCSAus	Type 4X	4 awg	4/0 awg	Screw	214
DR30	Polyester	3P+N+G + 2 aux	600	30	NO	-	cCSAus	Type 4X	14 awg	8 awg	Screw	216
DR50	Polyester	3P+N+G + 4 aux	600	50	NO	-	cCSAus	Type 4X	14 awg	4 awg	Screw	218
DR100	Metal or Poly	3P+N+G + 4 aux	600	100	NO	-	cCSAus	Type 4X	10 awg	2 awg	Screw	220
DR250	Metal	3P+N+G + 4 aux	600	200	NO	-	cCSAus	Type 4X	4 awg	4/0 awg	Screw	222

Zone 2, Class I Division 2 Devices for Direct Current												
Product Type	Housing Material	Maximum Number of Contacts	Electrical Ratings				Certifications	Environmental Rating	Wiring Capacity		Wiring Connection	Catalog Page
			Max VAC	Amperage	Current Interruption	HP@Max Voltage			Min / Max			
DSDC1	Polyester	2P+G	250	20	NO	-	cCSAus	Type 4X	14 awg	8 awg	Screw	224
DSDC3	Polyester	2P+G	250	30	NO	-	cCSAus	Type 4X	14 awg	4 awg	Screw	224
DSDC6	Metal or Poly	2P+G	250	60	NO	-	cCSAus	Type 4X	14 awg	4 awg	Screw	224
DSDC9	Metal	2P+G	250	100	NO	-	cCSAus	Type 4X	4 awg	2/0 awg	Screw	224
DSDC2	Metal	2P+G	250	200	NO	-	cCSAus	Type 4X	4 awg	4/0 awg	Screw	224

International Configurations & Ratings												
Product Type	Housing Material	Maximum Number of Contacts	Electrical Ratings				Certifications	Environmental Rating	Wiring Capacity		Wiring Connection	Catalog Page
			Max VAC	Amperage	Current Interruption	HP@Max Voltage			Min / Max			
DXN1	Polyester	3P+N+G	550	20	YES	-	ATEX, IECEx	IP66/IP67	16 awg	10 awg	Screw	190
DXN3	Polyester	3P+N+G	750	32	YES	-	ATEX, IECEx	IP66/IP67	14 awg	6 awg	Screw	192
DXN3	Polyester	3P+N+G + 2 aux	550	32	YES	-	ATEX, IECEx	IP66/IP67	14 awg	6 awg	Screw	192
DXN6	Polyester	3P+N+G	750	63	YES	-	ATEX, IECEx	IP66/IP67	10 awg	4 awg	Screw	194
DXN6	Polyester	3P+N+G + 2 aux	550	63	YES	-	ATEX, IECEx	IP66/IP67	10 awg	4 awg	Screw	194
DXA1	Metal	3P+N+G	550	20	YES	-	ATEX, IECEx	IP66/IP67	16 awg	10 awg	Screw	200
DX1	Aluminum	3P+N+G	750	20	YES	-	ATEX, IECEx	IP65	14 awg	8 awg	Screw	230
DX3	Aluminum	3P+N+G	750	32	YES	-	ATEX, IECEx	IP65	14 awg	8 awg	Screw	231
DX6	Aluminum	3P+N+G	750	63	YES	-	ATEX, IECEx	IP65/IP66	6 awg	1/0 awg	Screw	232
DX9	Aluminum	3P+N+G	750	125	YES	-	ATEX, IECEx	IP65/IP66	1/0 awg	2/0 awg	Screw	233
PXN12c	Metal	11P+G	220	10	NO	-	ATEX, IECEx	IP65/IP66	16 awg	14 awg	Solder/Crimp	239
DXN25c	Metal	24P+G	440	10	NO	-	ATEX, IECEx	IP66/IP67	16 awg	14 awg	Solder/Crimp	241
DXN37c	Metal	36P+G	220	10	NO	-	ATEX, IECEx	IP66/IP67	16 awg	14 awg	Solder/Crimp	241
SPeX	Polyester	1	1000	680	NO	-	ATEX, IECEx	IP66	2/0 awg	750mcm	Lug	244