

Control Station and Control Panel:

Control Box, DCR series

Flameproof and Dust protection by enclosure

External ground point: M5 for sizes 1-4, M8 for size 5

Zone 1 & 2 - 21 & 22

Application

The DCR control boxes are suitable for use in areas where Group IIC gases may be present, including any environment with a risk of explosion and/or fire, or where combustible dust is present. These areas are classified as Zone 1, Zone 2, Zone 21, and Zone 22.

They are used to produce control and signalling panels, circuit breaker boxes, and motor starter enclosures in various configurations, specifically customized to meet customer requirements.

Specification

Body, cover : Marine grade copper-free aluminium

alloy with polyester powder coated,

RAL 7032 (Grey)

(optional offshore painting- acrylic

polyurethane coating)

Bolts : Stainless steel, SS 304

(optional SS 316)

Sealing (O-ring): Silicone





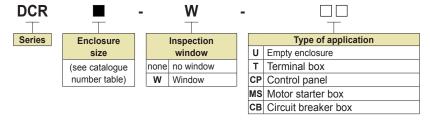
Technical Data

Hazardous Area	Gas	Dust					
Zones	1 & 2	21 & 22					
Equipment Group/Category	€ II 2G	€ II 2D					
Symbol of Protection	Ex db IIC T6/T5 Gb	Ex tb IIIC T85°C/ T100°C Db					
Certificate	KDB 23 ATEX 0031X						
	IECEx KDB 23.0008X						
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-31						
	IEC 60079-0, IEC 60079-1, IEC 60079-31						
Ambient Temperature	-40°C to +65°C						
Index of Protection	IP66						
Entry Threads	NPT or Metric threads						
Entry Threads	INF I OI IVICUIC UIICAUS						
Mounting	Wall mount						
Rated Voltage	Max. 750 V AC, 50/60 Hz						

Max. Dissipation Power Loss (Watts)

	Dissipation Power Loss by use in Temperature Class							
Cat. No.	T6	T5	T6	T5				
	Ta +	40°C	Ta +65°C					
DCR1	40	53	18	31				
DCR2	45	30	20	35				
DCR3	57	77	26	45				
DCR4	81	108	36	63				
DCR5	111	147	49	86				

Catalogue Number Logic



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Control Station and Control Panel:

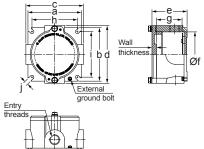
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Zone 1 & 2 - 21 & 22

Ordering Requirements and Dimensions

Figure-1 (Size 1,2)



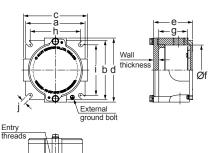
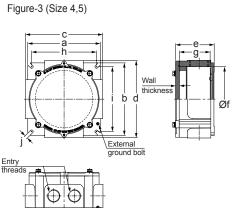


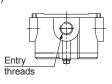
Figure-2 (Size 3)



En	clos			Dimensions in mm								Mell	Values	Mainlet		
EII	CIUS	ure	Outside Inside Mounting Ref.				Ref.	Wall thickness	Volume (cm³)	Weight						
Cat. No) .	Size	а	b	С	d	е	Øf	g	h	i	j	figure	unckness	(CIII')	(kg)
DCR1 -		Size 1	105	105	114	114	92	88	63	86	86	8	Figure-1	5	400	1.0
DCR2 -		Size 2	115	115	134	134	92	98	63	96	96	8	Figure-1	5	600	1.4
DCR3 -		Size 3	140	140	151	151	92	118	63	119	119	10	Figure-2	15	790	1.7
DCR4 -		Size 4	172	172	180	180	124	144	93	151	151	10	Figure-3	15	1,620	4.2
DCR5 -		Size 5	197	197	210	210	139	174	107	170	170	12	Figure-3	15	2,740	5.5

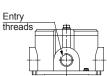
Enclosure Drilling Data

Figure-1 (Size 1,2,3)















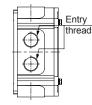
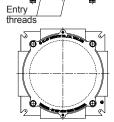
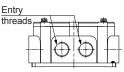


Figure-2 (Size 4,5)

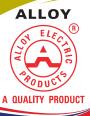




Entry	
and a second sec	Entry

	Drilling	Maximum entries thread size, NPT (Metric)								
Cat. No.	area (mm)	1/2" NPT (M20x1.5)	3/4" NPT (M25x1.5)	1" NPT (M32x1.5)	1-1/4" NPT (M40x1.5)	1-1/2" NPT (M50x1.5)	2" NPT (M63x1.5)	2-1/2" NPT (M75x1.5)	3" NPT (M80x1.5)	
DCR1 -□□	_	1	1	_	_	_	_	_	_	
DCR2 -□□	_	1	1	1	1	_	_	_	_	
DCR3 -□□	-	1	1	1	1	-	_	-	-	
DCR4 -□□	_	2	2	2	1	1	_	_	_	
DCR5 -□□	_	2	2	2	1	1	1	-	-	

Note: All holes are intended for cable entries using cable glands.



Control Station and Control Panel:

Switchrack Assemblies

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Application

The switchrack assemblies are designed for use in hazardous areas classified as Zone 1, Zone 2, Zone 21, and Zone 22.

They provide a complete solution that may include circuit breakers, motor starters, circuit breaker panelboards, terminal boxes, metering units, or control boxes — all factory-wired, assembled, and mounted on a free-standing rack.

Specification

Rack structure: Steel with hot-dip galvanized

Technical Data

Hazardous Area	Gas	Dust					
Zones	1 & 2	21 & 22					
Equipment Group/Category	II 2G	II 2D					
Symbol of Protection	Ex db IIB Gb	Ex tb IIIC Db					
Conformity to Standards	EN IEC 60079-0, EN 60079-1	, EN IEC 60079-31					
	IEC 60079-0, IEC 60079-1, IEC 60079-31						
Ambient Temperature	-20°C to +55°C						
Index of Protection	IP66						
Entry Threads	NPT or Metric threads						
Mounting	Wall mount or Stanchion mount						
Rated Voltage	Max. 415 V AC, 50/60 Hz						























