

Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Application

The panel-mounted operating devices are designed for use with flameproof and dust-protected enclosures, for controlling or indicating the status of electrical equipment such as motor starters and control devices. They are suitable for hazardous areas classified as Zone 1, Zone 2, Zone 21, and Zone 22.

Technical Data

Hazardous Area		Gas	Dust
Zones		1 & 2	21 & 22
Equipment Group/Category		Ex II 2G	Ex II 2D
Symbol of Protection	DPL1, DPB1, DPBS1, DMPB1, ASPB1, DSL1 & DSLK1 series	Ex db IIC Gb	Ex tb IIIC Db
	ACM1, ACM2, ALCB1, ALCB2 & DCM1 series		
	ALCB3 series	Ex db IIB Gb	
	LGCR, LGCR1 & LGCS series	Ex db IIB+H2 Gb	
Certificate	TÜV CY 17 ATEX 0205880U		
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-31		
Ambient Temperature	-20°C to +55°C	Index of Protection	IP66

Specification

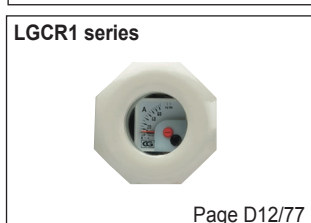
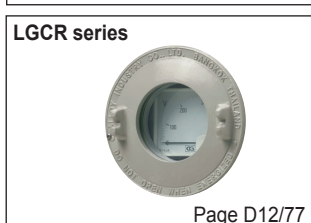
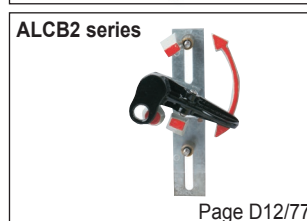
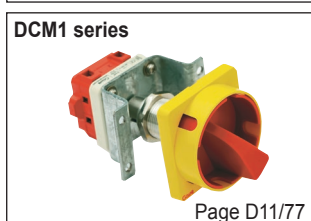
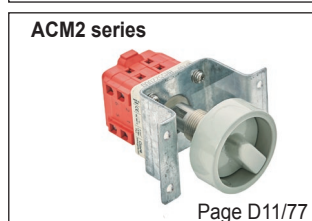
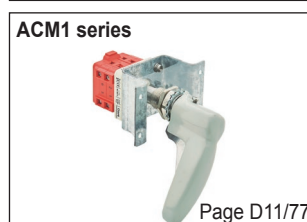
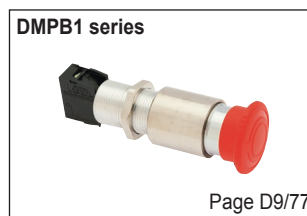
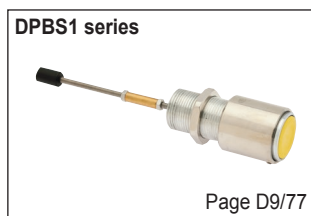
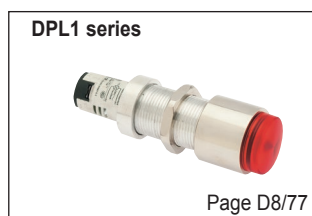
Thread coupling, Shaft :
Stainless steel, SS 304
(optional SS 316)
Thread bushing : Aluminium
Lock nut : Nickel-plated
brass
Flush button : Plastic
O-ring : Neoprene

Electrical Ratings

Pilot lights characteristics				
	Current consumption	For all colours	24 V DC/ AC	20 mA (27 max)
			120 V AC	18 mA (21 max)
			230-240 V AC	16 mA (20 max)
	Voltage limit	At nominal voltage	24 V DC	19.2-30 V DC
			24 V AC	26.1-26.4 V AC
			120 V AC	100-132 V AC
			230-240 V AC	195-264 V AC
Service life	At nominal voltage and at an ambient temp. of 25°C		70,000 Hrs	

Contact block ratings				
	Rated operational current (EN/IEC 60947-5-1)	AC15	240 V	3 A
			600 V	1.2 A
		DC13	250 V	0.27 A
			600 V	0.1 A
	Rated thermal current			10 A
Rated insulation voltage			600 V	

Cam operated switches				
Rated operational current (EN/IEC 60947-3)	16 A	25 A	32 A	
		20 A	30 A	
		400 V	400 V	
		400 V	600 V	



Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

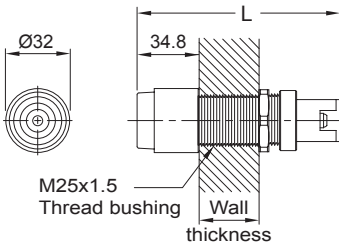
Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Pilot Light, DPL1 series



Dimensions in mm



Wall thickness of enclosure (□)	Length (L)
A (15-30 mm)	99.0 mm
B (31-45 mm)	119.0 mm

Catalogue Number Logic

DPL1 -	□	■ ■ ■	■
Series	Wall thickness of enclosure	Voltage	Colour of lens
A	15-30 mm	D02 24 V DC/AC	G Green B Blue
B	31-45 mm	A12 120 V AC	R Red C Clear
		A22 220-230 V AC	Y Yellow

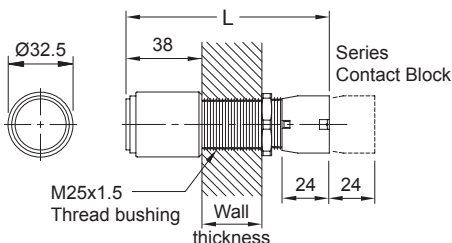
Ordering Requirements

Operating voltage	Diagram (Integral LED)	Colour of lens	Cat. No.	Approx. weight (kg)
24 V DC/AC	X1 ⊗ X2	Green ●	DPL1-□ D02G	0.145
		Red ●	DPL1-□ D02R	
		Yellow ●	DPL1-□ D02Y	
		Blue ●	DPL1-□ D02B	
		Clear ●	DPL1-□ D02C	0.145
120 V AC	X1 ⊗ X2	Green ●	DPL1-□ A12G	
		Red ●	DPL1-□ A12R	
		Yellow ●	DPL1-□ A12Y	
		Blue ●	DPL1-□ A12B	
		Clear ●	DPL1-□ A12C	0.145
220-230 V AC, 50/60 Hz	X1 ⊗ X2	Green ●	DPL1-□ A22G	
		Red ●	DPL1-□ A22R	
		Yellow ●	DPL1-□ A22Y	
		Blue ●	DPL1-□ A22B	
		Clear ●	DPL1-□ A22C	

Push Button, DPB1 series



Dimensions in mm



Wall thickness of enclosure (□)	Length (L)
A (15-30 mm)	96.0 mm
B (31-45 mm)	116.0 mm

Catalogue Number Logic

DPB1 -	□	■ ■	■
Series	Wall thickness of enclosure	Contact	Colour of button
A	15-30 mm	10 1NO 20 2NO	G Green B Black
B	31-45 mm	01 1NC 02 2NC	R Red W White
		11 1NO-1NC	Y Yellow

Ordering Requirements

Type of function	Contact symbol	Colour of button	Cat. No.	Approx. weight (kg)
Momentary	1NO	Green ●	DPB1-□ 10G	0.215
		Red ●	DPB1-□ 10R	
		Yellow ●	DPB1-□ 10Y	
		Black ●	DPB1-□ 10B	
		White ●	DPB1-□ 10W	
	1NC	Green ●	DPB1-□ 01G	0.215
		Red ●	DPB1-□ 01R	
		Yellow ●	DPB1-□ 01Y	
		Black ●	DPB1-□ 01B	
		White ●	DPB1-□ 01W	
	1NO-1NC	Green ●	DPB1-□ 11G	0.230
		Red ●	DPB1-□ 11R	
		Yellow ●	DPB1-□ 11Y	
		Black ●	DPB1-□ 11B	
		White ●	DPB1-□ 11W	
	2NO	Green ●	DPB1-□ 20G	0.230
		Red ●	DPB1-□ 20R	
		Yellow ●	DPB1-□ 20Y	
		Black ●	DPB1-□ 20B	
		White ●	DPB1-□ 20W	
	2NC	Green ●	DPB1-□ 02G	0.230
		Red ●	DPB1-□ 02R	
		Yellow ●	DPB1-□ 02Y	
		Black ●	DPB1-□ 02B	
		White ●	DPB1-□ 02W	

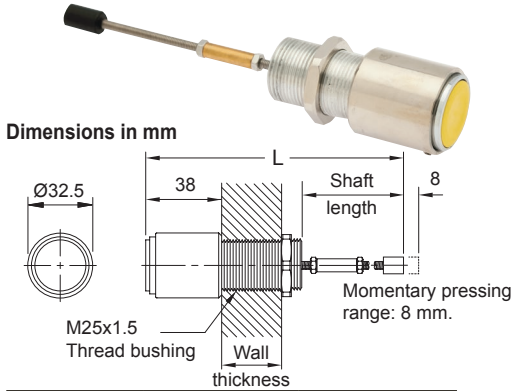
Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

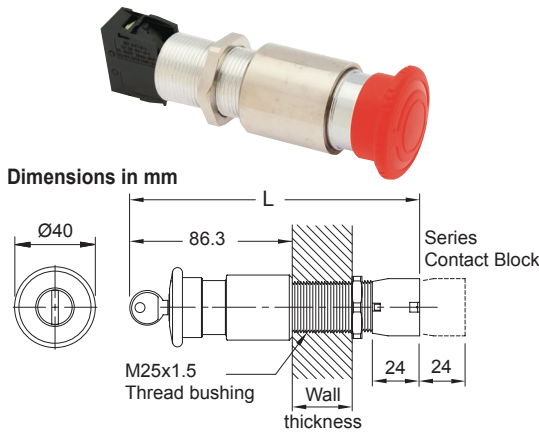


Push Button Shaft, DPBS1 series

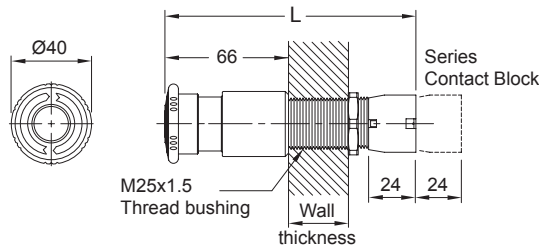


Wall thickness of enclosure (□)	Length (L)
50 mm shaft length	A (15-30 mm) 122.0 mm
100 mm shaft length	B (31-45 mm) 142.0 mm
100 mm shaft length	A (15-30 mm) 172.0 mm
100 mm shaft length	B (31-45 mm) 192.0 mm

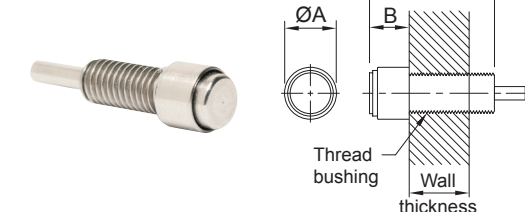
Mushroom-Head Push Button, DMPB1 series



Wall thickness of enclosure (□)	Length (L)
Push-pull	A (15-30 mm) 125.0 mm
Push-pull	B (31-45 mm) 145.0 mm
Push-Lock, Turn to release	A (15-30 mm) 122.5 mm
Push-Lock, Turn to release	B (31-45 mm) 142.5 mm



Special Purpose Push Button Shaft, ASPB1 series



Catalogue Number Logic

Series	Wall thickness of enclosure	Shaft length	Colour of button
DPBS1 - □	A 15-30 mm	50 50 mm	G Green B Black
	B 31-45 mm	1X 100 mm	R Red W White
			Y Yellow

Ordering Requirements

Type of function	Shaft length	Colour of button	Cat. No.	Approx. weight (kg)
Momentary	50 mm	Green	DPBS1-□ 50G	0.215
		Red	DPBS1-□ 50R	
		Yellow	DPBS1-□ 50Y	
		Black	DPBS1-□ 50B	
		White	DPBS1-□ 50W	
	100 mm	Green	DPBS1-□ 1XG	0.235
		Red	DPBS1-□ 1XR	
		Yellow	DPBS1-□ 1XY	
		Black	DPBS1-□ 1XB	
		White	DPBS1-□ 1XW	

Catalogue Number Logic

Series	Wall thickness of enclosure	Type of function	Contact
DMPB1 - □	A 15-30 mm	1 Push-pull	10 1NO 20 2NO
	B 31-45 mm	2 Push-lock, Turn to release	01 1NC 02 2NC
		3 Push-lock, Key to release	

Ordering Requirements

Type of function	Contact	Colour of button	Cat. No.	Approx. weight (kg)
Push-pull	1NO	Red	DMPB1-□ 110R	0.254
Push-lock, Turn to release			DMPB1-□ 210R	0.254
Push-lock, Key to release			DMPB1-□ 310R	0.255
Push-pull	1NC	Red	DMPB1-□ 101R	0.254
Push-lock, Turn to release			DMPB1-□ 201R	0.254
Push-lock, Key to release			DMPB1-□ 301R	0.255
Push-pull	2NO	Red	DMPB1-□ 120R	0.269
Push-lock, Turn to release			DMPB1-□ 220R	0.269
Push-lock, Key to release			DMPB1-□ 320R	0.270
Push-pull	2NC	Red	DMPB1-□ 102R	0.269
Push-lock, Turn to release			DMPB1-□ 202R	0.269
Push-lock, Key to release			DMPB1-□ 302R	0.270

Push-lock, Key to release

Wall thickness of enclosure (□)	Length (L)
Push-lock, Key to release	A (15-30 mm) 145.5 mm
Push-lock, Key to release	B (31-45 mm) 165.5 mm

Ordering Requirements

Type of function	Wall thickness	Colour of button	Cat. No.
Momentary	15-20 mm	Stainless (natural)	ASPB1-A
	21-45 mm		ASPB1-B

Dimensions in mm (L)

Wall thickness of enclosure (□)	Length (L)
A (15-20 mm)	B (21-45 mm)
36.5 mm	29.5 mm

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Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Catalogue Number Logic

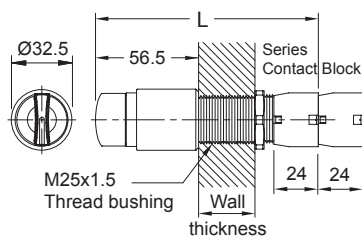
Series		Wall thickness of enclosure	Position	Contact	Function
DSL1	Selector Switch	A 15-30 mm	2 2-Position	10 1NO 20 2NO	S Spring return
DSLK1	Key Selector Switch	B 31-45 mm	3 3-Position	11 1NO-1NC	R Spring return from right

Selector Switch, DSL1 series

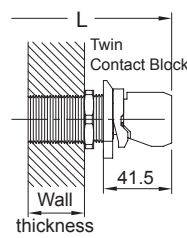


Dimensions in mm

2-Position



3-Position



Wall thickness of enclosure (□)		Length (L)
2-Position	A (15-30 mm)	115.5 mm
	B (31-45 mm)	165.5 mm
3-Position	A (15-30 mm)	132.0 mm
	B (31-45 mm)	152.0 mm

Ordering Requirements

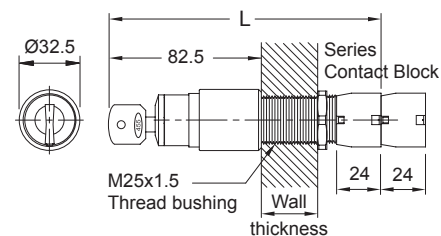
Type of function	Contact	Cat. No.	Approx. weight (kg)
2-Position			
Stay put (or Maintained)	1NO	DSL1-□ 210	0.230
	2NO	DSL1-□ 220	0.245
	1NO-1NC	DSL1-□ 211	0.245
Spring return	1NO	DSL1-□ 210S	0.230
	2NO	DSL1-□ 220S	0.245
	1NO-1NC	DSL1-□ 211S	0.245
3-Position			
Stay put (or Maintained)	2NO	DSL1-□ 320	0.250
Spring return from right to centre	2NO	DSL1-□ 320R	0.250

Key Selector Switch, DSLK1 series

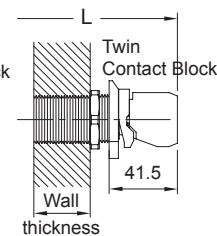


Dimensions in mm

2-Position



3-Position



Ordering Requirements

Type of Function	Contact	Cat. No.	Approx. weight (kg)
2-Position			
Stay put (or Maintained)	1NO	DSLK1-□ 210	0.235
	2NO	DSLK1-□ 220	0.250
	1NO-1NC	DSLK1-□ 211	0.250
3-Position			
Stay put (or Maintained)	2NO	DSLK1-□ 320	0.255

Wall thickness of enclosure (□)		Length (L)
2-Position	A (15-30 mm)	141.5 mm
	B (31-45 mm)	161.5 mm
3-Position	A (15-30 mm)	158.0 mm
	B (31-45 mm)	178.0 mm

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Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Catalogue Number Logic

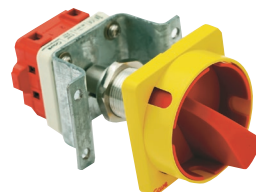
Series	
DCM1	Cam operated switch type-1
ACM1	Cam operated switch type-2
ACM2	Cam operated switch type-3

Wall thickness of enclosure	
(see dimension table)	

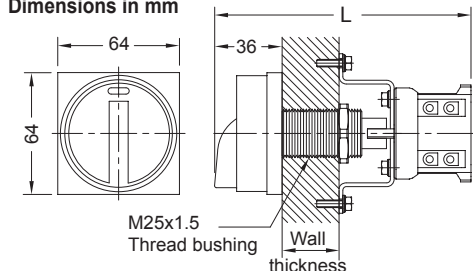
Type of function	
1	Single pole
2	Double pole

Ampere	
16	16 A
25	25 A
32	32 A

Cam Operated Switch Type-1,
DCM1 series



Dimensions in mm



Wall thickness of enclosure (□)	Length (L)
A (15-30 mm)	128.0 mm
B (31-45 mm)	148.0 mm

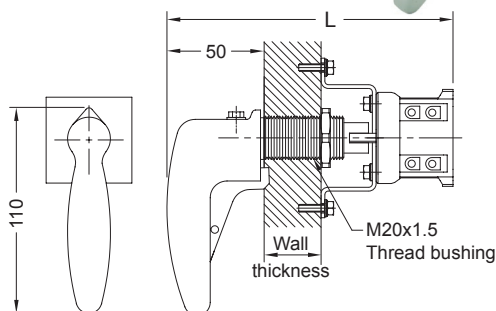
Ordering Requirements

Ampere	Connection	Cat. No.	Approx. weight (kg)
2-Step (Position 45°)			
Single pole	16 A	DCM1-□ 116	0.318
	25 A	DCM1-□ 125	
	32 A	DCM1-□ 132	
Double pole	16 A	DCM1-□ 216	0.350
	25 A	DCM1-□ 225	
	32 A	DCM1-□ 232	

Cam Operated Switch Type-2,
ACM1 series



Dimensions in mm

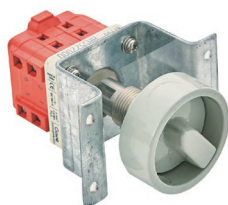


Ordering Requirements

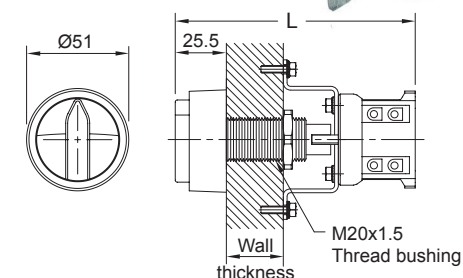
Ampere	Connection	Cat. No.	Approx. weight (kg)
2-Step (Position 45°)			
Single pole	16 A	ACM1-□ 116	0.24
	25 A	ACM1-□ 125	
	32 A	ACM1-□ 132	
Double pole	16 A	ACM1-□ 216	0.30
	25 A	ACM1-□ 225	
	32 A	ACM1-□ 232	

Wall thickness of enclosure (□)	Length (L)
A (15-20 mm)	138.0 mm
B (21-45 mm)	161.0 mm

Cam Operated Switch Type-3,
ACM2 series



Dimensions in mm



Ordering Requirements

Ampere	Connection	Cat. No.	Approx. weight (kg)
2-Step (Position 45°)			
Single pole	16 A	ACM2-□ 116	0.24
	25 A	ACM2-□ 125	
	32 A	ACM2-□ 132	
Double pole	16 A	ACM2-□ 216	0.30
	25 A	ACM2-□ 225	
	32 A	ACM2-□ 232	

Wall thickness of enclosure (□)	Length (L)
A (15-20 mm)	113.5 mm
B (21-45 mm)	136.5 mm

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Flameproof and Dust protection by enclosure

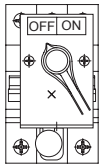
Zone 1 & 2 – 21 & 22

Ordering Requirements

Mechanism for Circuit Breaker

Mechanism No.1

for Miniature Circuit Breaker (63AF/ 125AF), ALCB1 series



Approx. weight; 0.189 kg

Slide Plate (Left)

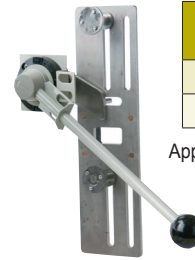
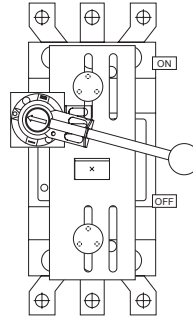
Wall thickness	Cat. No.
15-20 mm	ALCB1L-A
21-45 mm	ALCB1L-B

Slide Plate (Right)

Wall thickness	Cat. No.
15-20 mm	ALCB1R-A
21-45 mm	ALCB1R-B

Mechanism No.3

for Molded-Case Circuit Breaker (400 to 800AF), ALCB3 series



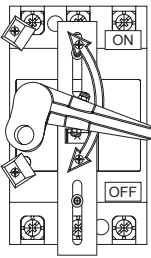
Wall thickness	Cat. No.
15-20 mm	ALCB3-A
21-45 mm	ALCB3-B

Approx. weight; 2.707 kg

Remark: The molded-case circuit breaker ALCB series is limited for installation on enclosures with internal free volume $\leq 2,000 \text{ cm}^3$

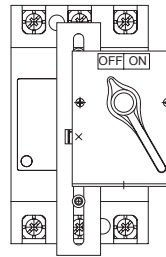
Mechanism No.2 for Molded-Case Circuit Breaker (30 to 250AF), ALCB2 series

Handle Type-1



Wall thickness	Cat. No.
15-20 mm	ALCB21-A
21-45 mm	ALCB21-B

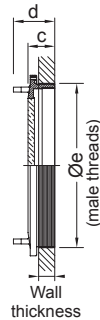
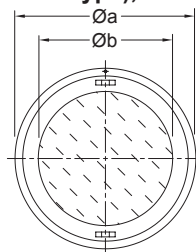
Handle Type-2



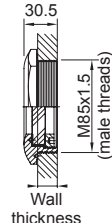
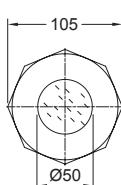
Wall thickness	Cat. No.
15-20 mm	ALCB22-A
21-45 mm	ALCB22-B

Approx. weight; 0.425 kg

Inspection Window (Round type), LGCR/ LGCR1 series



Wall thickness



Wall thickness

Ordering Requirements

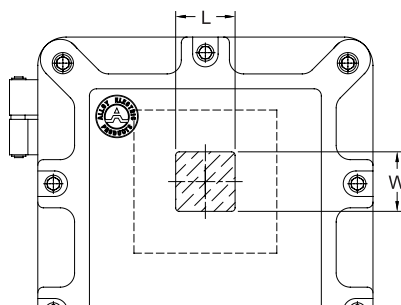
Lens diameter * Øb	Cat. No.	Dimensions in mm				Wall thickness	Approx. weight (kg)
		Øa	c	d	Øe		
117 mm	LGCR-113	189	46	61	M164	15-45 mm	1.52
179 mm	LGCR-217	251			M226		2.41
208 mm	LGCR-320	280			M255		2.89

* Suitable for meters with a maximum panel size of 72×72 mm or 96×96 mm

Lens diameter *	Cat. No.	Wall thickness	Approx. weight (kg)
50 mm	LGCR1-50-M85	10-45 mm	0.515

* Suitable for meters with a maximum panel size of 48×48 mm

Inspection Window (Rectangular type), LGCS series



Ordering Requirements

Cat. No.	Dimensions in mm		Wall thickness
	W	L	
LGCS-142	42	42	15-45 mm
LGCS-260	60	60	
LGCS-383	83	83	
LGCS-430	30	145	
LGCS-5120	120	120	
LGCS-6200	200	200	

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Application

The panel-mounted operating devices are designed for use with flameproof and dust-protected enclosures, for controlling or indicating the status of electrical equipment such as motor starters and control devices. They are suitable for hazardous areas classified as Zone 1, Zone 2, Zone 21, and Zone 22.

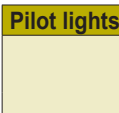
Specification

Thread coupling, Shaft: Stainless steel, SS 304 (optional SS 316)
Thread bushing : Aluminium (optional Stainless steel, SS 316)
Lock nut : Nickel-plated brass
Flush button : Plastic (standard)
O-ring : Neoprene

Technical Data

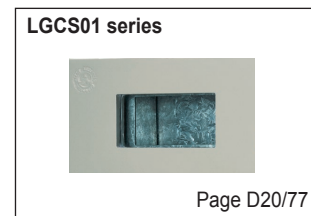
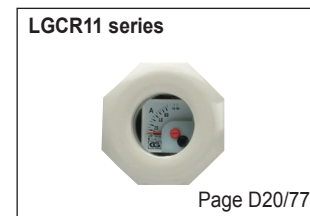
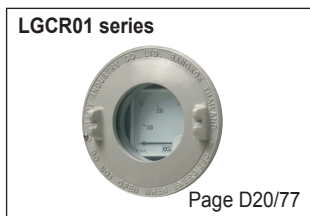
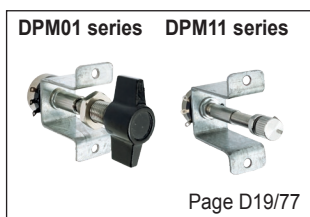
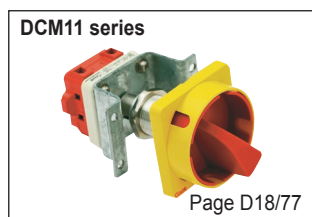
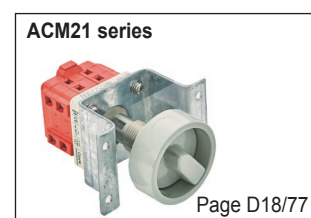
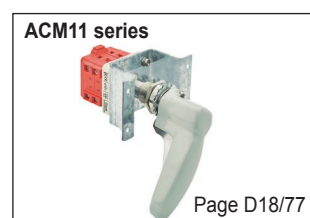
Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	Ex II 2G	Ex II 2D
Symbol of Protection	Ex db IIC Gb	Ex tb IIIC Db
Certificate	KDB 23 ATEX 0029U IECEx KDB 23.0009U	
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-31	
Ambient Temperature	-40°C to +65°C	
Index of Protection	IP66	

Electrical Ratings

Pilot lights characteristics				
	Current consumption	For all colours	24 V DC/ AC	20 mA (27 max)
			120 V AC	18 mA (21 max)
			230-240 V AC	16 mA (20 max)
	Voltage limit	At nominal voltage	24 V DC	19.2-30 V DC
			24 V AC	26.1-26.4 V AC
			120 V AC	100-132 V AC
			230-240 V AC	195-264 V AC
Service life	At nominal voltage and at an ambient temp. of 25°C		70,000 Hrs	

Contact block ratings				
	Rated operational current (EN/IEC 60947-5-1)	AC15	240 V	3 A
			600 V	1.2 A
		DC13	250 V	0.27 A
			600 V	0.1 A
	Rated thermal current			
Rated insulation voltage				600 V

Cam operated switches				
	Rated operational current (EN/IEC 60947-3)	16 A	25 A	32 A
	Rated thermal current	20 A	30 A	40 A
	Rated insulation voltage	400 V	400 V	600 V



Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

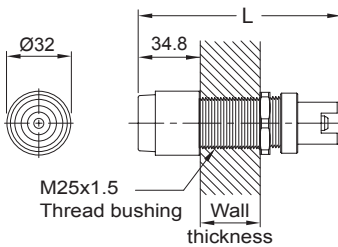
Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Pilot Light, DPL11 series



Dimensions in mm

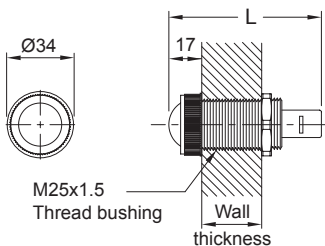


Wall thickness of enclosure (□)	Length (L)
A (15-30 mm)	99.0 mm
B (31-45 mm)	119.0 mm

Pilot Light, DPL01 series



Dimensions in mm



Wall thickness of enclosure (□)	Length (L)
A (15-30 mm)	75.0 mm
B (31-45 mm)	90.0 mm

Catalogue Number Logic

DPL11 -	□	■ ■ ■	■
Series	Wall thickness of enclosure	Voltage	Colour of lens
A	15-30 mm	D24 24 V DC/ AC	G Green B Blue
B	31-45 mm	A12 120 V AC	R Red C Clear
		A22 220-230 V AC	Y Yellow

Ordering Requirements

Operating voltage	Diagram (integral LED)	Colour of lens	Cat. No.	Approx. weight (kg)
24 V DC/ AC	X1 ⊗ X2	Green ● DPL11-□ D02G		0.145
		Red ● DPL11-□ D02R		
		Yellow ● DPL11-□ D02Y		
		Blue ● DPL11-□ D02B		
		Clear ● DPL11-□ D02C		
120 V AC	X1 ⊗ X2	Green ● DPL11-□ A12G		0.145
		Red ● DPL11-□ A12R		
		Yellow ● DPL11-□ A12Y		
		Blue ● DPL11-□ A12B		
		Clear ● DPL11-□ A12C		
220/230 V AC, 50/60 Hz	X1 ⊗ X2	Green ● DPL11-□ A22G		0.145
		Red ● DPL11-□ A22R		
		Yellow ● DPL11-□ A22Y		
		Blue ● DPL11-□ A22B		
		Clear ● DPL11-□ A22C		

Catalogue Number Logic

DPL01 -	□	■ ■ ■	■
Series	Wall thickness of enclosure	Voltage	Colour of lens
A	15-30 mm	D06 6 V DC/ AC	G Green B Blue
B	31-45 mm	D12 12 V DC/ AC	R Red C Clear
		D24 24 V DC/ AC	Y Yellow
		D11 110 V DC/ AC	
		A22 220/230 V AC	
		A38 380 V AC	

Ordering Requirements

Operating voltage	Diagram (integral LED)	Colour of lens	Cat. No.	Approx. weight (kg)
6 V DC/ AC	X1 ⊗ X2	Green ● DPL01-□ D06G		0.125
		Red ● DPL01-□ D06R		
		Yellow ● DPL01-□ D06Y		
		Blue ● DPL01-□ D06B		
		Clear ● DPL01-□ D06C		
12 V DC/ AC	X1 ⊗ X2	Green ● DPL01-□ D12G		0.125
		Red ● DPL01-□ D12R		
		Yellow ● DPL01-□ D12Y		
		Blue ● DPL01-□ D12B		
		Clear ● DPL01-□ D12C		
24 V DC/ AC	X1 ⊗ X2	Green ● DPL01-□ D24G		0.125
		Red ● DPL01-□ D24R		
		Yellow ● DPL01-□ D24Y		
		Blue ● DPL01-□ D24B		
		Clear ● DPL01-□ D24C		
110 V DC/ AC	X1 ⊗ X2	Green ● DPL01-□ D11G		0.125
		Red ● DPL01-□ D11R		
		Yellow ● DPL01-□ D11Y		
		Blue ● DPL01-□ D11B		
		Clear ● DPL01-□ D11C		
220/230 V AC, 50/60 Hz	X1 ⊗ X2	Green ● DPL01-□ A22G		0.125
		Red ● DPL01-□ A22R		
		Yellow ● DPL01-□ A22Y		
		Blue ● DPL01-□ A22B		
		Clear ● DPL01-□ A22C		
380 V AC 50/60 Hz	X1 ⊗ X2	Green ● DPL01-□ A38G		0.125
		Red ● DPL01-□ A38R		
		Yellow ● DPL01-□ A38Y		
		Blue ● DPL01-□ A38B		
		Clear ● DPL01-□ A38C		

Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

Flameproof and Dust protection by enclosure

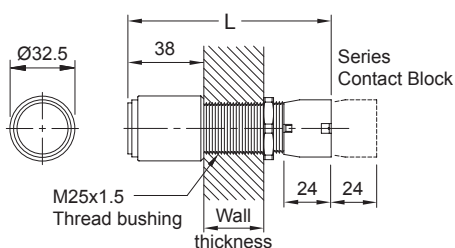
Zone 1 & 2 – 21 & 22



Push Button, DPB11 series



Dimensions in mm



Plastic Flush Button (standard)

Wall thickness of enclosure (□)	Length (L)
A (15-30 mm)	96.0 mm
B (31-45 mm)	116.0 mm

Aluminium Flush Button (option)

Wall thickness of enclosure (□)	Length (L)
A (15-30 mm)	94.0 mm
B (31-45 mm)	114.0 mm

Catalogue Number Logic

DPB2 -

Series	Wall thickness of enclosure	Contact	Colour of button	Button material
A	15-30 mm	10 1NO	G Green	none Plastic (standard)
B	31-45 mm	01 1NC	R Red	A Aluminium (Option)
		11 1NO-1NC	Y Yellow	
		20 2NO	B Black	
		02 2NC	W White	

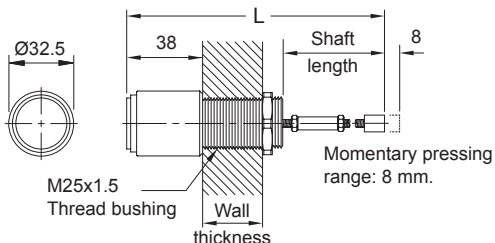
Ordering Requirements

Type of function	Contact symbol	Colour of button	Cat. No.	Approx. weight (kg)
Momentary	1NO	Green	DPB11-□ 10G ○	0.215
		Red	DPB11-□ 10R ○	
		Yellow	DPB11-□ 10Y ○	
		Black	DPB11-□ 10B ○	
		White	DPB11-□ 10W ○	
	1NC	Green	DPB11-□ 01G ○	0.215
		Red	DPB11-□ 01R ○	
		Yellow	DPB11-□ 01Y ○	
		Black	DPB11-□ 01B ○	
		White	DPB11-□ 01W ○	
	1NO-1NC	Green	DPB11-□ 11G ○	0.230
		Red	DPB11-□ 11R ○	
		Yellow	DPB11-□ 11Y ○	
		Black	DPB11-□ 11B ○	
		White	DPB11-□ 11W ○	
	2NO	Green	DPB11-□ 20G ○	0.230
		Red	DPB11-□ 20R ○	
		Yellow	DPB11-□ 20Y ○	
		Black	DPB11-□ 20B ○	
		White	DPB11-□ 20W ○	
	2NC	Green	DPB11-□ 02G ○	0.230
		Red	DPB11-□ 02R ○	
		Yellow	DPB11-□ 02Y ○	
		Black	DPB11-□ 02B ○	
		White	DPB11-□ 02W ○	

Push Button Shaft, DPBS11 series



Dimensions in mm



Wall thickness of enclosure (□)	Length (L)
50 mm shaft length	A (15-30 mm) 122.0 mm
100 mm shaft length	B (31-45 mm) 142.0 mm
100 mm shaft length	A (15-30 mm) 172.0 mm
100 mm shaft length	B (31-45 mm) 192.0 mm

Catalogue Number Logic

DPBS11 -

Series	Wall thickness of enclosure	Shaft length	Colour of button	Button material
A	15-30 mm	50 50 mm	G Green	none Plastic (standard)
B	31-45 mm	1X 100 mm	R Red	A Aluminium (Option)
			Y Yellow	
			B Black	
			W White	

Ordering Requirements

Type of function	Shaft length	Colour of button	Cat. No.	Approx. weight (kg)
Momentary	50 mm	Green	DPBS11-□ 50G ○	0.215
		Red	DPBS11-□ 50R ○	
		Yellow	DPBS11-□ 50Y ○	
		Black	DPBS11-□ 50B ○	
		White	DPBS11-□ 50W ○	
	100 mm	Green	DPBS11-□ 1XG ○	0.235
		Red	DPBS11-□ 1XR ○	
		Yellow	DPBS11-□ 1XY ○	
		Black	DPBS11-□ 1XB ○	
		White	DPBS11-□ 1XW ○	

Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

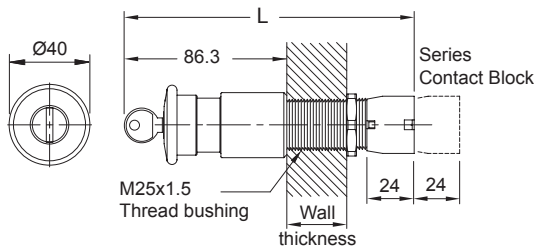
Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Mushroom-Head Push Button, DMPB11 series

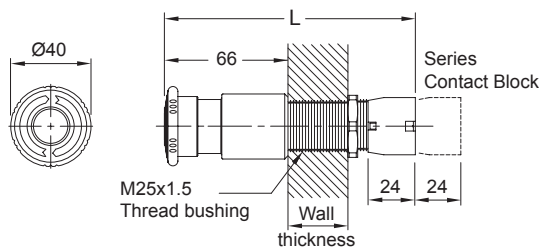


Dimensions in mm



Push-Lock, Key to release

Wall thickness of enclosure (□)	Length (L)
Push-Lock, Key to release A (15-30 mm)	145.5 mm
B (31-45 mm)	165.5 mm



Wall thickness of enclosure (□)	Length (L)
Push-pull A (15-30 mm)	125.0 mm
B (31-45 mm)	145.0 mm
Push-Lock, Turn to release A (15-30 mm)	122.5 mm
B (31-45 mm)	142.5 mm

Catalogue Number Logic

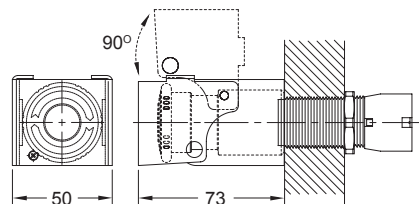
DMPB11 -

Series	Wall thickness of enclosure	Type of function	Contact
A	15-30 mm	1 Push-pull	10 1NO 20 2NO
B	31-45 mm	2 Push-lock, Turn to release	01 1NC 02 2NC
		3 Push-lock, Key to release	

Ordering Requirements

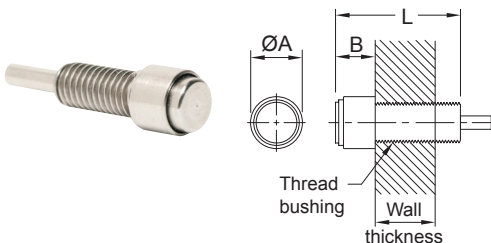
Type of function	Contact	Colour of button	Cat. No.	Approx. weight (kg)
Push-pull	1NO	Red	DMPB11-□ 110R	0.254
Push-lock, Turn to release			DMPB11-□ 210R	0.254
Push-lock, Key to release			DMPB11-□ 310R	0.255
Push-pull	1NC	Red	DMPB11-□ 101R	0.254
Push-lock, Turn to release			DMPB11-□ 201R	0.254
Push-lock, Key to release			DMPB11-□ 301R	0.255
Push-pull	2NO	Red	DMPB11-□ 120R	0.269
Push-lock, Turn to release			DMPB11-□ 220R	0.269
Push-lock, Key to release			DMPB11-□ 320R	0.270
Push-pull	2NC	Red	DMPB11-□ 102R	0.269
Push-lock, Turn to release			DMPB11-□ 202R	0.269
Push-lock, Key to release			DMPB11-□ 302R	0.270

Pad lock/ Padlock cover (optional)



Material: SS 304 stainless steel, offering high durability and resistance to corrosion.

Special Purpose Push Button Shaft, ASPB11 series



Ordering Requirements

Type of Function	Thread bushing	Wall thickness	Colour of button	Cat. No.
Momentary	M8x1.25	15-20 mm	Stainless (natural)	ASPB11-A1-M8
		21-45 mm		ASPB11-B1-M8
	M12x1.5	15-20 mm		ASPB11-A2-M12
		21-45 mm		ASPB11-B2-M12

Cat. No.	Dimensions in mm		
	ØA	B	Length (L)
ASPB11-A1-M8	11.0	8.5	36.5 mm
ASPB11-B1-M8			59.5 mm
ASPB11-A2-M12	15.8	9.5	36.5 mm
ASPB11-B2-M12			59.5 mm

Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Catalogue Number Logic

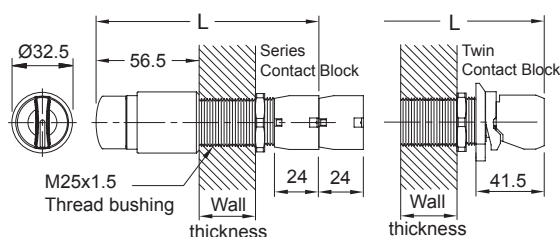
Series		Wall thickness of enclosure	Position	Contact	Function
DSL11	Selector switch	A 15-30 mm	2 2-Position	10 1NO 20 2NO	S Spring return
DSLK11	Key selector switch	B 31-45 mm	3 3-Position	11 1NO-1NC	R Spring return from right

Selector Switch, DSL11 series



Dimensions in mm

2-Position



3-Position

Wall thickness of enclosure (□)	Length (L)
2-Position A (15-30 mm)	115.5 mm
2-Position B (31-45 mm)	165.5 mm
3-Position A (15-30 mm)	132.0 mm
3-Position B (31-45 mm)	152.0 mm

Ordering Requirements

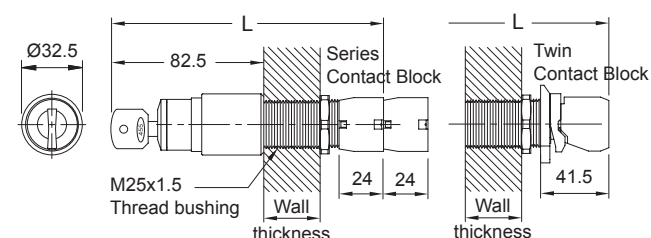
Type of function	Contact	Cat. No.	Approx. weight (kg)
2-Position			
Stay put (or Maintained)	1NO	DSL11-□ 210	0.230
	2NO	DSL11-□ 220	0.245
	1NO-1NC	DSL11-□ 211	0.245
Spring return	1NO	DSL11-□ 210S	0.230
	2NO	DSL11-□ 220S	0.245
	1NO-1NC	DSL11-□ 211S	0.245
3-Position			
Stay put (or Maintained)	2NO	DSL11-□ 320	0.250
Spring return from right to centre	2NO	DSL11-□ 320R	0.250

Key Selector Switch, DSLK11 series



Dimensions in mm

2-Position



3-Position

Wall thickness of enclosure (□)	Length (L)
2-Position A (15-30 mm)	141.5 mm
2-Position B (31-45 mm)	161.5 mm
3-Position A (15-30 mm)	158.0 mm
3-Position B (31-45 mm)	178.0 mm

Ordering Requirements

Type of function	Contact	Cat. No.	Approx. weight (kg)
2-Position			
Stay put (or Maintained)	1NO	DSLK11-□ 210	0.235
	2NO	DSLK11-□ 220	0.250
	1NO-1NC	DSLK11-□ 211	0.250
3-Position			
Stay put (or Maintained)	2NO	DSLK11-□ 320	0.255

Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

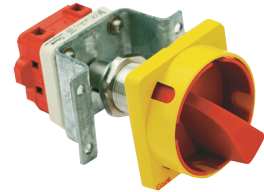
Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

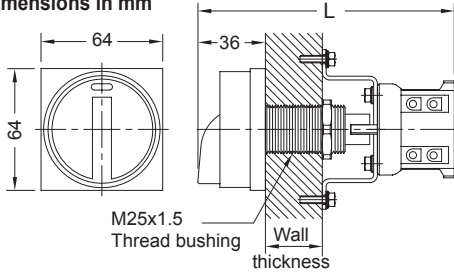
Catalogue Number Logic

Series	Wall thickness of enclosure (see dimension table)	Type of function	Ampere
DCM11		1 Single pole	16 16 A
ACM11		2 Double pole	25 25 A
ACM21			32 32 A

Cam Operated Switch Type-1, DCM11 series



Dimensions in mm



Wall thickness of enclosure (□)	Length (L)
A (15-30 mm)	128.0 mm
B (31-45 mm)	148.0 mm

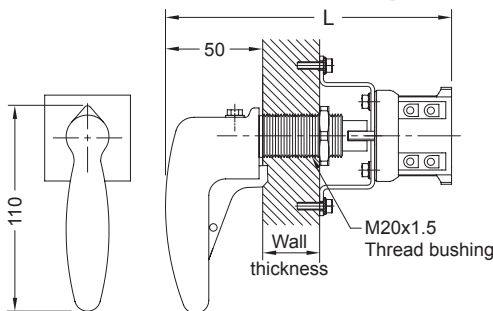
Ordering Requirements

Ampere	Connection	Cat. No.	Approx. weight (kg)
2-Step (Position 45°)			
Single pole	16 A	DCM11-□ 116	0.318
	25 A	DCM11-□ 125	
	32 A	DCM11-□ 132	
Double pole	16 A	DCM11-□ 216	0.350
	25 A	DCM11-□ 225	
	32 A	DCM11-□ 232	

Cam Operated Switch Type-2, ACM11 series



Dimensions in mm

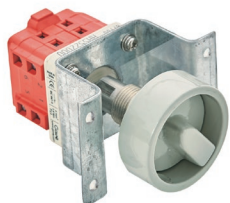


Ordering Requirements

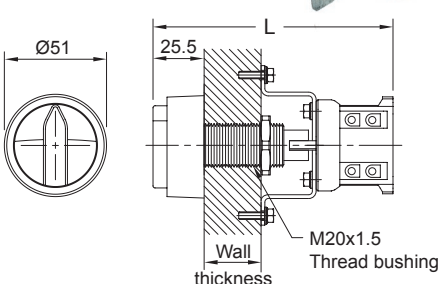
Ampere	Connection	Cat. No.	Approx. weight (kg)
2-Step (Position 45°)			
Single pole	16 A	ACM11-□ 116	0.24
	25 A	ACM11-□ 125	
	32 A	ACM11-□ 132	
Double pole	16 A	ACM11-□ 216	0.30
	25 A	ACM11-□ 225	
	32 A	ACM11-□ 232	

Wall thickness of enclosure (□)	Length (L)
A (15-20 mm)	138.0 mm
B (21-45 mm)	161.0 mm

Cam Operated Switch Type-3, ACM21 series



Dimensions in mm



Ordering Requirements

Ampere	Connection	Cat. No.	Approx. weight (kg)
2-Step (Position 45°)			
Single pole	16 A	ACM21-□ 116	0.24
	25 A	ACM21-□ 125	
	32 A	ACM21-□ 132	
Double pole	16 A	ACM21-□ 216	0.30
	25 A	ACM21-□ 225	
	32 A	ACM21-□ 232	

Wall thickness of enclosure (□)	Length (L)
A (15-20 mm)	113.5 mm
B (21-45 mm)	136.5 mm

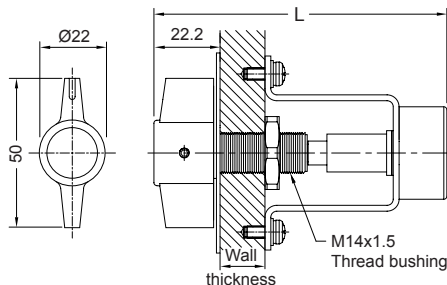
Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

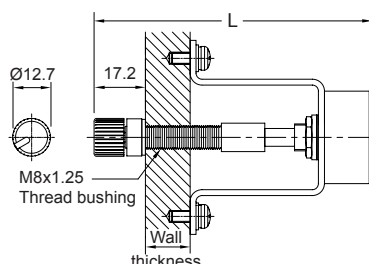
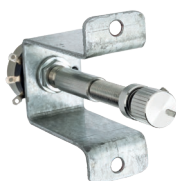
Mechanism for Potentiometer (Variable resistor)

Type 1, DPM01 series



Wall thickness of enclosure	Cat. No.	Length (L)
A (15-20 mm)	DPM01-A	98.2 mm
B (21-45 mm)	DPM01-B	123.2 mm

Type 2, DPM11 series

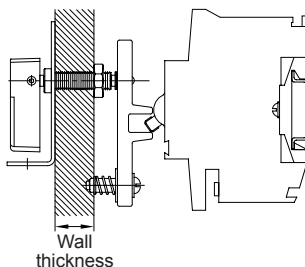


Wall thickness of enclosure	Cat. No.	Length (L)
A (15-20 mm)	DPM11-A	93.2 mm
B (21-45 mm)	DPM11-B	118.2 mm

Mechanism for Circuit Breaker

Mechanism No.1, ALCB11 series

Type-1 for Miniature Circuit Breaker (63AF/ 125 AF)



Approx. weight; 0.189 kg

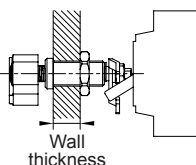
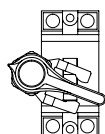
Slide Plate (Left)

Wall thickness of enclosure	Cat. No.
A (15-20 mm)	ALCB11L-A
B (21-45 mm)	ALCB11L-B

Slide Plate (Right)

Wall thickness of enclosure	Cat. No.
A (15-20 mm)	ALCB11R-A
B (21-45 mm)	ALCB11R-B

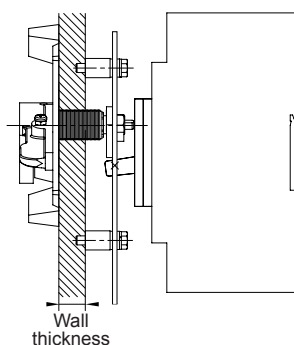
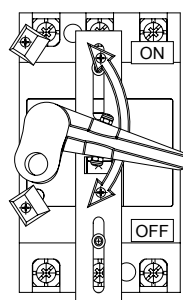
Type-2 for Safety Breaker



Wall thickness of enclosure	Cat. No.
A (15-20 mm)	ALCB11S-A
B (21-45 mm)	ALCB11S-B

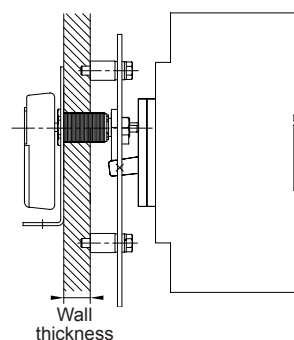
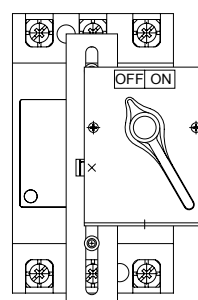
Mechanism No.2 for Molded-Case Circuit Breaker (30 to 250 AF), ALCB21 series

Handle Type-1



Wall thickness of enclosure	Cat. No.
A (15-20 mm)	ALCB211-A
B (21-45 mm)	ALCB211-B

Handle Type-2



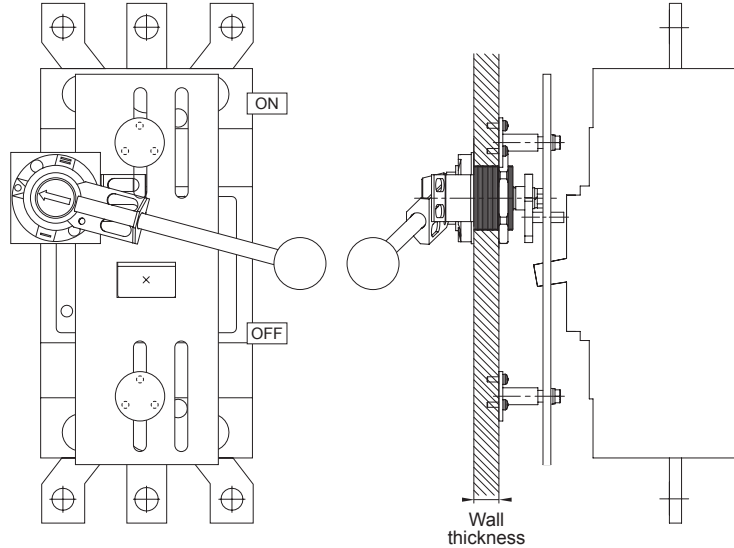
Wall thickness of enclosure	Cat. No.
A (15-20 mm)	ALCB212-A
B (21-45 mm)	ALCB212-B

Control Station and Control Panel: Panel Mounted Operating Devices and Windows, IIC

Flameproof and Dust protection by enclosure

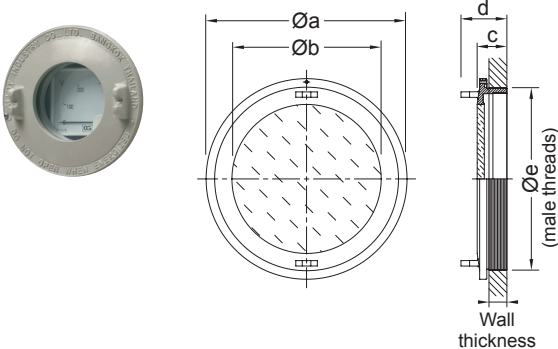
Zone 1 & 2 – 21 & 22

Mechanism No.3 for Molded-Case Circuit Breaker(400 to 800 AF),
ALCB31 series



Wall thickness of enclosure	Cat. No.
A (15-20 mm)	ALCB31-A
B (21-45 mm)	ALCB31-B

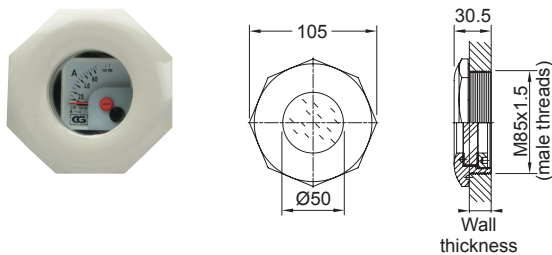
Inspection Window (Round type), LGCR01/ LGCR11 series



Ordering Requirements

Lens diameter * Øb	Cat. No.	Dimensions in mm				Wall thickness	Approx. weight (kg)
		Øa	c	d	Øe		
117 mm	LGCR01-113	189	46	61	M164	15-45 mm	1.52
179 mm	LGCR01-217	251			M226		2.41
208 mm	LGCR01-320	280			M255		2.89

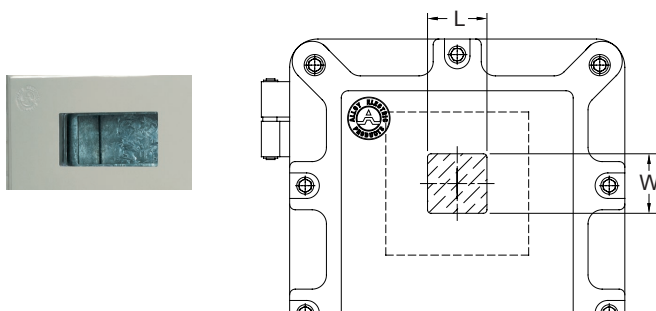
* Suitable for meters with a maximum panel size of 72×72 mm or 96×96 mm



Lens diameter *	Cat. No.	Wall thickness	Approx. weight (kg)
50	LGCR11-50-M85	10-45 mm	0.515

* Suitable for meters with a maximum panel size of 48×48 mm

Inspection Window (Rectangular type), LGCS01 series



Ordering Requirements

Cat. No.	Dimensions in mm		Wall thickness
	W	L	
LGCS01- 125	20	50	15-45 mm
LGCS01- 255	50	50	
LGCS01- 377	70	70	
LGCS01- 499	95	95	
LGCS01- 5310	30	100	
LGCS01- 6314	30	145	
LGCS01- 7510	50	100	
LGCS01- 81010	100	100	
LGCS01- 91212	120	120	
LGCS01- 101515	150	150	
LGCS01- 112020	200	200	
LGCS01- 122441	240	410	