

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



A QUALITY PRODUCT

Flameproof Zone 1 & 2 – 21 & 22

Application

The panel mounted operating devices are designed for used with the flameproof enclosure and dust protection enclosure for controlling or indicating the status of electrical equipment such as motor starter, control equipment operation. They are suitable for Zone 1, 2 and Zone 21, 22 hazardous areas.

Specification

Thread coupling, Shaft	: Stainless steel
Thread bushing	: Aluminium
Lock nut	: Brass with chromium plated
Flush button	: Plastic
O-ring	: Neoprene

Technical Data

Hazardous Area	Gas	Dust	
Zones	1 & 2	21 & 22	
Conforming to ATEX	 II 2G	 II 2D	
Symbol of Protection ATEX	Ex db IIB Gb	Ex tb IIIB Db	
Symbol of Protection IEC			
ATEX Certificate	Presafe 16 ATEX 8037U		
IECEX Certificate	IECEX PRE 16.0026U		
Standard	ATEX Directive 2014/34/EU, std. EN 60079-0:2012,		
	EN 60079-1:2007, EN 60079-31:2014		
	IECEX Scheme, std. IEC 60079-0:2011, IEC 60079-1:2014,		
	IEC 60079-31:2013		
Ambient Temperature	-20 °C to +75 °C		
Index of Protection	IP66		

DPL series



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DPB series



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DPBS series



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DMPB series



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DSL series



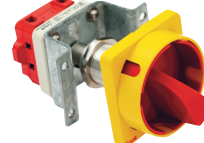
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DKS series



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DCM series



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LGCR series



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LGCS series



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ALCB1 series



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ALCB2 series



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ALCB3 series



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Electrical Rating

Pilot lights characteristics

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



Contact Block ratings

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

Cam operated switches

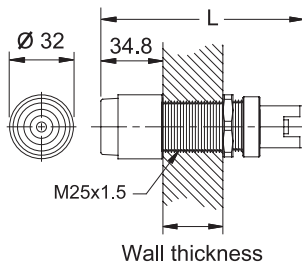
Rated operational current (EN/IEC 60947-3)	16A.	25A.	32A.
Rated thermal current	20A.	30A.	40A.
Rated insulation voltage	400V.	400V.	600V.

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

**Flameproof
Zone 1 & 2 – 21 & 22**

Catalogue Number and Dimension

Pilot Light, DPL series

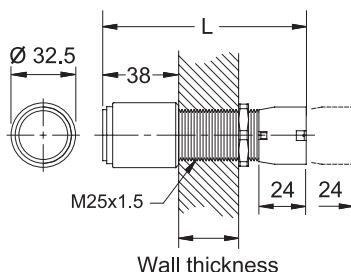


Dimension (L)

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
99.0	119.0

Operating Voltage	Diagram (Integral LED)	Colour of Lens	Cat. No.	Weight (kgs.)
24V.DC/ AC ~	X1 ⊗ X2	Green	DPL-□ D02G	0.145
		Red	DPL-□ D02R	
		Yellow	DPL-□ D02Y	
		Blue	DPL-□ D02B	
		Clear	DPL-□ D02C	
120V. AC ~	X1 ⊗ X2	Green	DPL-□ A12G	0.145
		Red	DPL-□ A12R	
		Yellow	DPL-□ A12Y	
		Blue	DPL-□ A12B	
		Clear	DPL-□ A12C	
220-230V. AC ~	X1 ⊗ X2	Green	DPL-□ A22G	0.145
		Red	DPL-□ A22R	
		Yellow	DPL-□ A22Y	
		Blue	DPL-□ A22B	
		Clear	DPL-□ A22C	

Push Button, DPB series



Dimension (L)

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
96.0	116.0

Type of Function	Type of Contact		Colour of Button	Cat. No.	Weight (kgs.)
	NO	NC			
Momentary	1	—	Green	DPB-□ 10G	0.215
			Red	DPB-□ 10R	
			Yellow	DPB-□ 10Y	
			Black	DPB-□ 10B	
			White	DPB-□ 10W	
	—	1	Green	DPB-□ 01G	0.215
			Red	DPB-□ 01R	
			Yellow	DPB-□ 01Y	
			Black	DPB-□ 01B	
			White	DPB-□ 01W	
	1	1	Green	DPB-□ 11G	0.230
			Red	DPB-□ 11R	
			Yellow	DPB-□ 11Y	
			Black	DPB-□ 11B	
			White	DPB-□ 11W	
	2	—	Green	DPB-□ 20G	0.230
			Red	DPB-□ 20R	
			Yellow	DPB-□ 20Y	
			Black	DPB-□ 20B	
			White	DPB-□ 20W	
	—	2	Green	DPB-□ 02G	0.230
			Red	DPB-□ 02R	
			Yellow	DPB-□ 02Y	
			Black	DPB-□ 02B	
			White	DPB-□ 02W	

Remark: □ - Wall thickness of enclosure, replace □ with; **A** - for 14-30 mm. wall thickness and **B** - for 31-45 mm. wall thickness

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

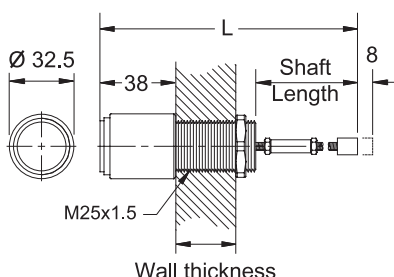


A QUALITY PRODUCT

Flameproof
Zone 1 & 2 – 21 & 22

Catalogue Number and Dimension

Push Button Shaft, DPBS series



Type of Function	Shaft Length	Colour of Button	Cat. No.	Weight (kgs.)
Momentary	50mm.	Green	DPBS-□ 50G	0.215
		Red	DPBS-□ 50R	
		Yellow	DPBS-□ 50Y	
		Black	DPBS-□ 50B	
		White	DPBS-□ 50W	
	100mm.	Green	DPBS-□ 1XG	0.235
		Red	DPBS-□ 1XR	
		Yellow	DPBS-□ 1XY	
		Black	DPBS-□ 1XB	
		White	DPBS-□ 1XW	

Dimension (L)

50mm. shaft length

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
122.0	142.0

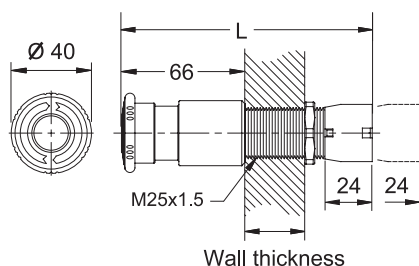
100mm. shaft length

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
172.0	192.0

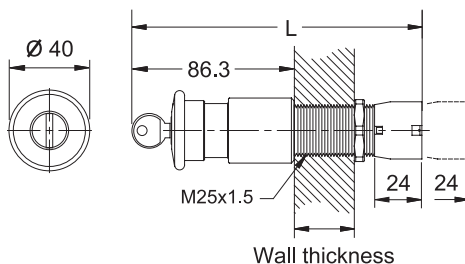
Mushroom-Head Push Button, DMPB series



Push-pull or Push-lock Turn to released



Push-lock Key to released



Type of Function	Type of Contact		Colour of Button	Cat. No.	Weight (kgs.)
	NO	NC			
Push-pull	1	—	Red	DMPB-□ 110R	0.254
	—	1		DMPB-□ 101R	
	2	—		DMPB-□ 120R	0.269
	—	2		DMPB-□ 102R	
Push-lock Turn to release	1	—	Red	DMPB-□ 210R	0.254
	—	1		DMPB-□ 201R	
	2	—		DMPB-□ 220R	0.269
	—	2		DMPB-□ 102R	
Push-lock Key to release	1	—	Red	DMPB-□ 310R	0.255
	—	1		DMPB-□ 301R	
	2	—		DMPB-□ 320R	0.270
	—	2		DMPB-□ 302R	

Dimension (L)

Push-pull

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
125.0	145.0

Push-lock Turn to release

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
122.5	142.5

Push-lock Key to release

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
145.5	165.5

Remark: □ - Wall thickness of enclosure, replace □ with; A - for 14-30 mm. wall thickness and B - for 31-45 mm. wall thickness

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

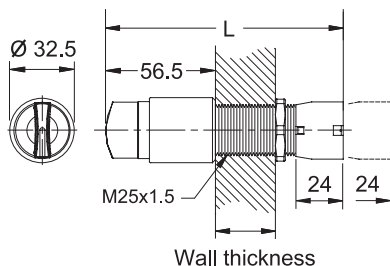
Flameproof
Zone 1 & 2 – 21 & 22

Catalogue Number and Dimension

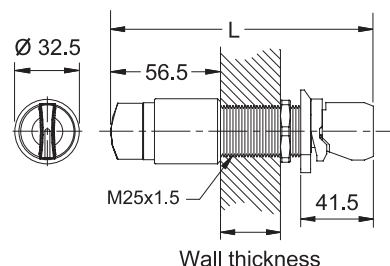
Selector Switch, DSL series



2-Positions



3-Positions



Type of Function 	Type of Contact		Cat. No.	Weight (kgs.)
	NO 	NC 		

2-Positions

Stay put (or Maintained) 	1	–	DSL-□ 210	0.230
	2	–	DSL-□ 220	0.245
	1	1	DSL-□ 211	
Spring return from right 	1	–	DSL-□ 210S	0.230
	2	–	DSL-□ 220S	0.245
	1	1	DSL-□ 211S	

3-Positions

Stay put (or Maintained) 	2	–	DSL-□ 320	0.250
	–	2	DSL-□ 302	
Spring return from left to centre 	2	–	DSL-□ 320L	0.250
	–	2	DSL-□ 302L	
Spring return from right to centre 	2	–	DSL-□ 320R	0.250
	–	2	DSL-□ 302R	

Dimension (L)

2-Positions

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
115.5	165.5

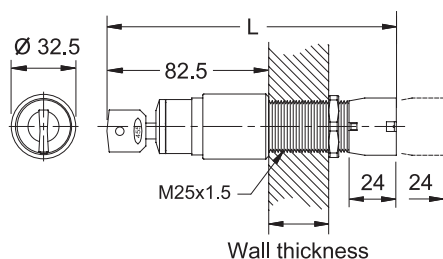
3-Positions

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
132.0	152.0

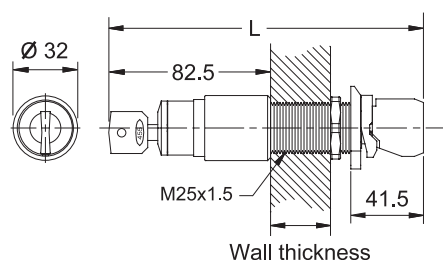
Key Selector Switch, DSLK series



2-Positions



3-Positions



Type of Function 	Type of Contact		Cat. No.	Weight (kgs.)
	NO 	NC 		

2-Positions

Stay put (or Maintained) 	1	–	DSLK-□ 210	0.235
	2	–	DSLK-□ 220	0.250
	1	1	DSLK-□ 211	
Spring return from right 	1	–	DSLK-□ 210S	0.235
	2	–	DSLK-□ 220S	0.250
	1	1	DSLK-□ 211S	

3-Positions

Stay put (or Maintained) 	2	–	DSLK-□ 320	0.255
	–	2	DSLK-□ 302	
Spring return from left to centre 	2	–	DSLK-□ 320L	0.255
	–	2	DSLK-□ 302L	
Spring return from right to centre 	2	–	DSLK-□ 320R	0.255
	–	2	DSLK-□ 302R	

Dimension (L)

2-Positions

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
141.5	161.5

3-Positions

Wall thickness of enclosure (□)	
A (14-30mm.)	B (31-45mm.)
158.0	178.0

Remark: □ - Wall thickness of enclosure, replace □ with; **A** - for 14-30 mm. wall thickness and **B** - for 31-45 mm. wall thickness

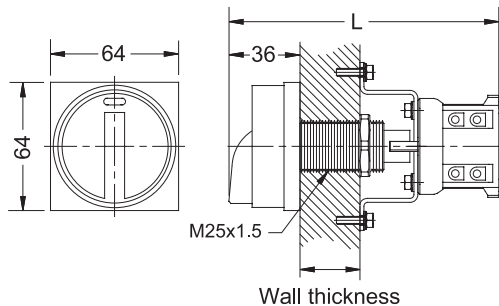
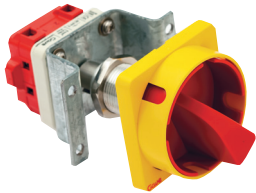
Control Station and Control Panel: Panel Mounted Operating Devices and Windows



**Flameproof
Zone 1 & 2 – 21 & 22**

Catalogue Number and Dimension

Cam Operated Switch, DCM series



Type/ Amp.	Connection	Cat. No.	Weight (kgs.)
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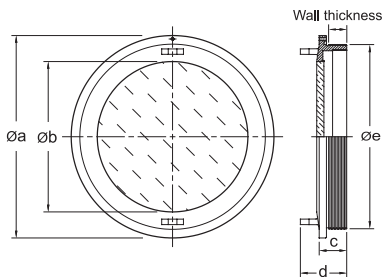
2-Steps (Position 45°)

Single pole	16A.		DCM-□ 116	0.318
	25A.		DCM-□ 125	
	32A.		DCM-□ 132	
Double poles	16A.		DCM-□ 216	0.350
	25A.		DCM-□ 225	
	32A.		DCM-□ 232	

Dimension (L)

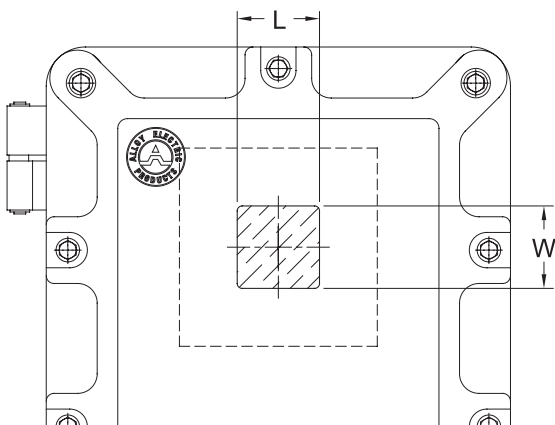
Wall thickness of enclosure (□)
A (14-30mm.)
B (31-45mm.)
128.0
148.0

Inspection Window (Round type), LGCR series



Cat. No.	Dimension in mm.					Wall thickness	Weight (kgs.)
	Øa	Lens dia. Øb	c	d	Øe		
LGCR-50-M85	105	50mm.	30	—	M85	10-45mm.	0.515
LGCR-113	189	117mm.	46	61	M164	14-45mm.	1.518
LGCR-217	251	179mm.	46	61	M226	14-45mm.	2.410
LGCR-320	280	208mm.	46	61	M255	14-45mm.	2.890

Inspection Window (Rectangular type), LGCS series



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

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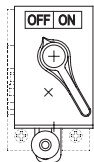
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Panel Mounted Operating Devices and Windows



Flameproof
Zone 1 & 2 – 21 & 22

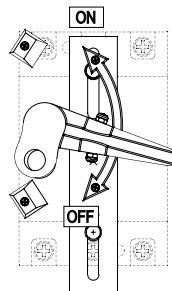
Catalogue Number and Dimension

Mechanism for Miniature Circuit Breaker and
Molded-case Circuit Breaker (32AF/63AF/125AF),
ALCB1 series



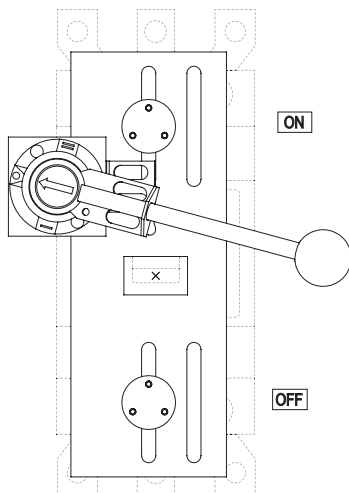
Wall Thickness	Cat. No.
15-20mm.	ALCB1-A
21-45mm.	ALCB1-B

Mechanism for Molded-Case Circuit Breaker (160AF/ 250AF),
ALCB2 series



Wall Thickness	Cat. No.
15-20mm.	ALCB2-A
21-45mm.	ALCB2-B

Mechanism for Molded-Case Circuit Breaker (400AF/ 630AF/800AF),
ALCB3 series



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

D

Note: LGCR, LGCS and ALCB series, ATEX Certification under preparation.