

# Control Stations & Switches: Control Stations – Flameproof

## D Series: Aluminum Control Stations



1 Function



2 Functions



2 Functions



3 Functions

CONTROL STATIONS & SWITCHES

### Compliance Data:

ATEX - IEC:

Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IEC	CE
Ex d IIB / Ex d IIC	T6 to T5	Ex tD A21	T95°C	IP66 – IK10

### Operating Temperature:

-40°C to +55°C				
----------------	--	--	--	--



# Control Stations & Switches: Control Stations – Flameproof

## D Series: Aluminum Control Stations

Zone 1 & 2 - 21 & 22

Ex II 2 GD

ATEX / IEC

IP66 - IK10

### Applications:

- Local control stations for use in hazardous areas.
- Control of electrical equipment at power plants, chemical and petrochemical plants, petroleum refineries, pulp and paper processing plants and various industrial applications.

### Features:

#### 1 & 2 Function Ex d IIC:

- Supplied with actuators, contact blocks and pilot lights.
- TS35 rail mounted contact blocks.
- Threaded flameproof joint.
- Connection: 2 x 2.5 mm<sup>2</sup> maximum.
- Internal earth: 2 x 4 mm<sup>2</sup>.
- External ground: M5
- 1 x M20 or M25 threaded entry at bottom.
- Cable glands and plugs to be ordered separately.

#### 2 & 3 Function Exd IIB:

- Supplied with actuators and rail mounting pilot lights and contact blocks.
- Flanged flameproof joint.
- Yellow laminated plastic legend plate with black lettering.
- Connection : 2 x 2.5 mm<sup>2</sup> max.
- Internal earth: 2 x 4 mm<sup>2</sup>.
- External earth: M6 screw.
- 2 x M20 threaded entries at the bottom.
- Cable glands and plugs to be ordered separately.

### Standard Material of Fixtures:




- Gray painted marine grade aluminum alloy box.

### Options:

- For other configurations, see pre-drilled control stations or consult factory.

### Ordering Information:

#### 1 Function Ex d IIC Control Stations:

Type	Description/Function	Bottom Entries	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
<b>Spring Return Push Button</b>						
	BR1d 1x black spring return push button with 1NO + 1NC momentary contacts	1 x M20	1	3.75	DA1W1T101	093881
	BR1d 1x black spring return push button with 1NO + 1NC momentary contacts	1 x M25	1	3.75	DA1W3T101	093880
<b>Mushroom Head Push Button</b>						
	BR1d 1x red mushroom head push-pull with 1NO + 1NC maintained contacts Padlockable in both positions	1 x M20	1.2	3.75	DA1W1T102	093887
	BR1d 1x red mushroom head push-pull with 1NO + 1NC maintained contacts Padlockable in both positions	1 x M25	1.2	3.75	DA1W3T102	093885
	BR1d Red mushroom head key release with 1NO + 1NC maintained contact Unlocked with key (MS1)	1 x M20	1.2	3.75	DA1W1T104	–
	BR1d Red mushroom head key release with 1NO + 1NC maintained contact Unlocked with key (MS1)	1 x M25	1.2	3.75	DA1W3T104	–
<b>Time Delayed Push Button 230 V 50/60 Hz</b>						
	BR1d 1x time delayed black impulse push button adjustable from 25s to 15mn For 1000 W incandescent or 400 W fluorescent max.	1 x M20	1.2	3.75	DA1W1T103	093888
	BR1d 1x time delayed black impulse push button adjustable from 25 s to 15 mn For 1000 W incandescent or 400 W fluorescent max.	1 x M25	1.2	3.75	DA1W3T103	093889

# Control Stations & Switches: Control Stations – Flameproof

## D Series: Aluminum Control Stations

Zone 1 & 2 - 21 & 22


Ex II 2 GD

ATEX / IEC


IP66 - IK10

### Ordering Information – Continued:

#### 2 Function Ex d IIC Control Stations:

Type	Description/Function	Bottom Entries	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	
<b>Twin Push Buttons</b>							
	BR1d	1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	1 x M20	1.2	3.75	DA1W1T201	–
	BR1d	1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	1 x M25	1.2	3.75	DA1W3T201	093890

#### 2 Function Ex d IIB Control Stations:

<b>Twin Push Buttons</b>							
	CF2D	1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	2 x M20	2.5	7	D4W2T201	–
	CF2D	1x green spring return 'I' push button with 1NO momentary contact 1x red mushroom head push-pull with 1NO+1NC maintained contacts	2 x M20	2.5	7	D4W2T202	–

#### 3 Function Ex d IIB Control Stations:

##### Pilot Light and Twin Push Buttons



CF2D	1x red/green LED light 85 to 264 Vac 1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	2 x M20	3.3	9	DA5W2T301	093891
------	--	---------	-----	---	-----------	--------

##### Ammeter and Twin Push Buttons

CF2D	1x ammeter 48 x 48 CT1A 3 x FLC 0-1-3A 1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	2 x M20	3.3	9	DA5W2T302	–
------	--	---------	-----	---	-----------	---

#### Ex d IIC Limit Switch:

Limit Switch – Stainless steel roller control perpendicular for surface fixing.

1/4 turn fixing (may be modified by end user).



BR1d	1x roller plunger - travel 7 mm max. - Force 22 newtons with 1NO+1NC momentary contacts	1 x M20	1	4.6	DA1W1L001	093807
BR1d	1x roller plunger - travel 7 mm max. - Force 22 newtons with 1NO+1NC momentary contacts	1 x M25	1	4.6	DA1W3L001	093805

# Control Stations & Switches: Control Stations – Flameproof

## D Series: Aluminum Control Stations

Zone 1 & 2 - 21 & 22

Ⓢ II 2 GD

ATEX / IEC

IP66 - IK10

### Technical Data:

#### Contact Block

Insulation Voltage (Ui)	500 V		
Switching Capacity	AC 15 4 A/115 V 4 A/230 V 2 A/500 V DC 13 3 A/24 V 1.7 A/42 V 1.2 A/60 V 0.8 A/110 V 0.3 A/220 V		
Terminal connections	0.75 to 2.5 mm <sup>2</sup>		
Operation life	>5,000,000 Operations		

#### Light Switch

Insulation Voltage (Ui)	500 V		
Switching Capacity	AC 15 450 W/48 V 900 W/110 V 1900 W/230 V DC 13 100 W/48 V 100 W/110 V 95 W/230 V		
Terminal connections	0.75 to 2.5 mm <sup>2</sup>		
Operation life	> 1,000,000 Operations		

#### LED Pilot Light

Rated Voltage	85 Vac to 264 Vac, 50/60 Hz
Rating	5-15 mA
Max. Power	0.33 W
Operation life	Average 100,000 Hours at +25°C

### Compliances:

Hazardous Area	Gas	Dust
Certification Type	BR1d	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081ⓈII 2 G	CE 0081ⓈII 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 for Ta = +40°C T5 for Ta = +55°C	NA
Surface Temperature	NA	T95°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50230	
ATEX Certificate	LCIE 02 ATEX 6056	
IEC Certificate	LCIE Ex 02.005	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	
Internal Volume	≤ 2 dm <sup>3</sup> (2 liters)	

Hazardous Area	Gas	Dust
Certification Type	CF2D	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081ⓈII 2 G	CE 0081ⓈII 2 D
Symbol of Protection ATEX	Ex d IIB	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 for Ta ≤ +40°C T5 for +40°C < Ta ≤ +55°C	NA
Surface Temperature	NA	T95°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50254	
ATEX Certificate	LCIE 03 ATEX 6061X	
IEC Certificate	LCIE Ex 03.006X	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	
Internal Volume	≤ 2 dm <sup>3</sup> (2 liters)	

### Standards:

<b>Ex Standards</b>	EN / IEC 60079-0; 60079-1; 61241-0; 61241-1
<b>Product Standards</b>	EN / IEC 60947-1; 60947-5
<b>EMC Standards</b>	–
<b>Other Standards</b>	EN / IEC 60529 (IP); 62262 (IK)

# Control Stations & Switches: Control Stations – Flameproof

## D Series: Aluminum Control Stations

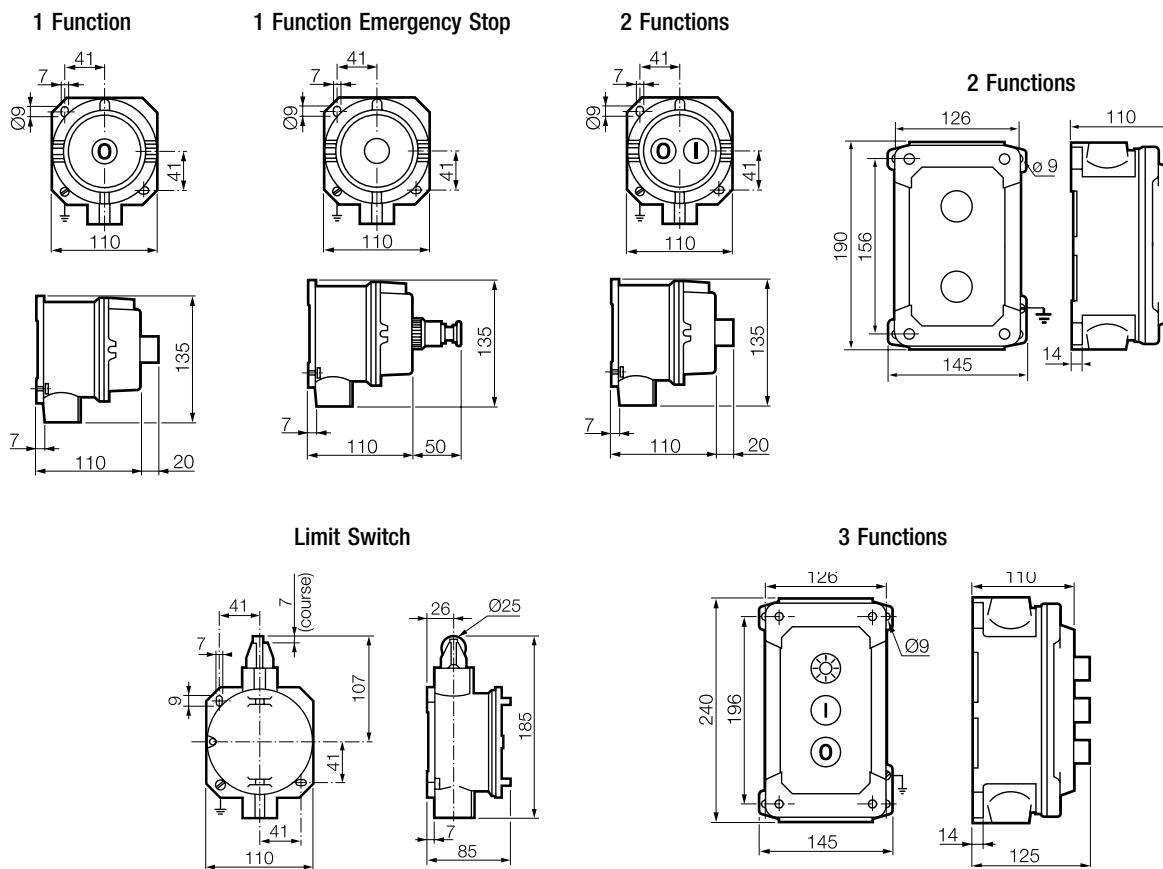
Zone 1 & 2 - 21 & 22

II 2 GD

ATEX / IEC

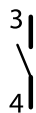
IP66 - IK10

Dimensions (mm):

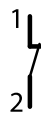


Electrical Diagrams:

NO Contact Block



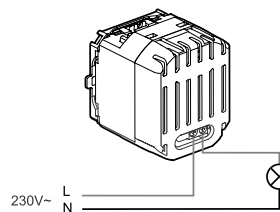
NC Contact Block



LED Pilot Light



Time Delayed Push Button



# Control Stations & Switches: Control Stations – Flameproof

## D Series: Pre-drilled Control Stations



1 Function



2 Functions



2 Functions



3 Functions



6 Functions

### Compliance Data:

ATEX - IEC:

Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IEC	CE
Ex d IIB / Ex d IIC	T6 to T5	Ex tD A21	T80°C to T95°C	IP66 – IK10

### Operating Temperature:

-40°C to +55°C				
----------------	--	--	--	--



# Control Stations & Switches: Control Stations – Flameproof

## D Series: Pre-drilled Control Stations

Zone 1 & 2 - 21 & 22

Ex II 2 GD

ATEX / IEC

IP66 - IK10

### Applications:

- Local control stations for use in hazardous areas.
- Control of equipment at power plants, chemical and petrochemical plants, petroleum refineries, pulp and paper processing plants and various industrial applications.

### Features:

#### 1 & 2 Function Ex d IIC:

- For TS35 rail mounted contact block.
- Actuators and contact blocks to be ordered separately.
- Up to 3 contacts per function.
- Threaded flameproof joint.
- Internal earth terminal 2 x 4 mm<sup>2</sup>.
- External ground terminal: M5.
- 1 x M20 or M25 threaded entry at bottom.
- Cable glands and plugs to be ordered separately.

#### 2 to 6 Function Ex d IIB:

- For TS35 rail mounted contact block.
- Actuators and contact blocks to be ordered separately.
- Up to 3 contacts per function.
- Flanged flameproof joint.
- Yellow laminated plastic legend plate with black lettering.
- Internal earth terminal: 2 x 4 mm<sup>2</sup>.
- External earth terminal: M6 screw and M8 earth stud (CF2B type).
- 2 x M20 threaded entries at the bottom.
- Cable glands and plugs to be ordered separately.


#### Standard Material of Fixtures:

- Gray painted marine grade aluminum alloy.
- Gray painted cast iron for CF2B.


### Ordering Information:

#### For TS35 Rail Mounted Actuators


#### 1 Function Ex d IIC Control Stations:

Type	Description/Function	Bottom Entries	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
 BR1d	For push button, pilot light or selector switch	1 x M20	0.9	2	DA1W1E101	-
BR1d	For push button, pilot light or selector switch	1 x M25	0.9	2	DA1W3E101	093151



#### 2 Function Ex d IIC Pre-drilled Box:

 BR1d	For push button (non-mushroom type) 2 contacts maximum for each function	1 x M20	0.9	2	DA1W1E201	-
BR1d	For push button (non-mushroom type) 2 contacts maximum for each function	1 x M25	0.9	2	DA1W3E201	093152

#### 2 Function Ex d IIB Pre-drilled Box:

 CF2D	For push button, pilot light or selector switch	2 x M20	2.3	7	DA4W2E202	093158
--	---	---------	-----	---	-----------	--------

#### 3 Function Ex d IIB Pre-drilled Box:

 CF2D	For push button, pilot light or selector switch (2 switches maximum)	2 x M20	3	7	DA5W2E301	093159
 CF2D	For push button, pilot light and ammeter 48 x 48 mm (ammeter with round barrel)	2 x M20	3	7	DA5W2E302	093160

# Control Stations & Switches: Control Stations – Flameproof

## D Series: Pre-drilled Control Stations

Zone 1 & 2 - 21 & 22


Ex II 2 GD

ATEX / IEC



IP66 - IK10

### Ordering Information – Continued:


#### 4 Function Ex d IIB Pre-drilled Box:

Type	Description/Function	Bottom Entries	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
 CF2D	For push button, pilot light and ammeter 48 x 48 mm (ammeter with round barrel)	2 x M20	3	7	DA5W2E401	–

#### 6 Function Ex d IIB Pre-drilled Box:

 CF2D	For push button and pilot light 2 Contacts maximum for each function	2 x M20	3	7	DA5W2E601	–
 CF2B	For push button, pilot light or selector switch (3 switches maximum)	2 x M20	13	13	DA3W2E601	093161

#### 1 Meter Ex d IIC Pre-drilled Box:

 BR2d	For indicator 72 x 72 mm or 96 x 96 mm with round barrel Mounting plate for indicator dia. 67 mm	2 x M20	4	11	DA2W2E102	093155
--	--	---------	---	----	-----------	--------

### Compliances:

Hazardous Area	Gas	Dust
Certification Type	BR1d	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 Ex II 2 G	CE 0081 Ex II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 (Ta = +40°C) T5 (Ta = +55°C)	NA
Surface Temperature	NA	T95°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50230	
ATEX Certificate	LCIE 02 ATEX 6056	
IEC Certificate	LCIE Ex 02.005	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	
Internal Volume	≤2 dm <sup>3</sup> (2 liters)	

Hazardous Area	Gas	Dust
Certification Type	CF2D	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 Ex II 2 G	CE 0081 Ex II 2 D
Symbol of Protection ATEX	Ex d IIB	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 for Ta ≤ +40°C T5 for +40°C < Ta ≤ +55°C	NA
Surface Temperature	NA	T95°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50254	
ATEX Certificate	LCIE 03 ATEX 6061X	
IEC Certificate	LCIE Ex 03.006X	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	
Internal Volume	≤2 dm <sup>3</sup> (2 liters)	

# Control Stations & Switches: Control Stations – Flameproof

## D Series: Pre-drilled Control Stations

Zone 1 & 2 - 21 & 22

⊕ II 2 GD

ATEX / IEC

IP66 - IK10

### Compliances – Continued:

Hazardous Area	Gas	Dust
Certification Type	CF2B	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081⊕ II 2 G	CE 0081⊕ II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 for $T_a \leq +40^\circ\text{C}$ T5 for $+40^\circ\text{C} < T_a \leq +55^\circ\text{C}$	NA
Surface Temperature	NA	T95°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50254	
ATEX Certificate	LCIE 03 ATEX 6061X	
IEC Certificate	LCIE Ex 03.006X	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	
Internal Volume	$\leq 2 \text{ dm}^3$ (2 liters)	

Hazardous Area	Gas	Dust
Certification Type	BR2d	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081⊕ II 2 G	CE 0081⊕ II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	T6	NA
Surface Temperature	NA	T80°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50256	
ATEX Certificate	LCIE 03 ATEX 6062	
IEC Certificate	LCIE Ex 03.007	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	
Internal Volume	$\leq 2 \text{ dm}^3$ (2 liters)	

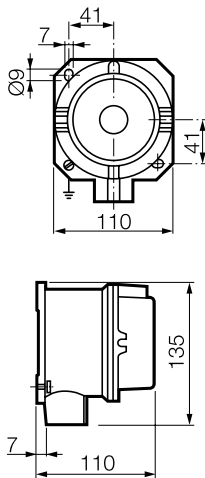
### Standards:

<b>Ex Standards</b>	EN / IEC 60079-0; 60079-1; 61241-0; 61241-1
<b>Product Standards</b>	EN / IEC 60947-1; 60947-5
<b>EMC Standards</b>	–
<b>Other Standards</b>	EN / IEC 60529 (IP); 62262 (IK)

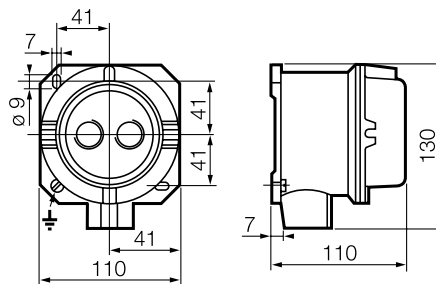
### Dimensions (mm):

For TS35 Rail Mounted Operators

BR1d (1 Function)



BR1d (2 Functions)



# Control Stations & Switches: Control Stations – Flameproof

## D Series: Pre-drilled Control Stations

Zone 1 & 2 - 21 & 22

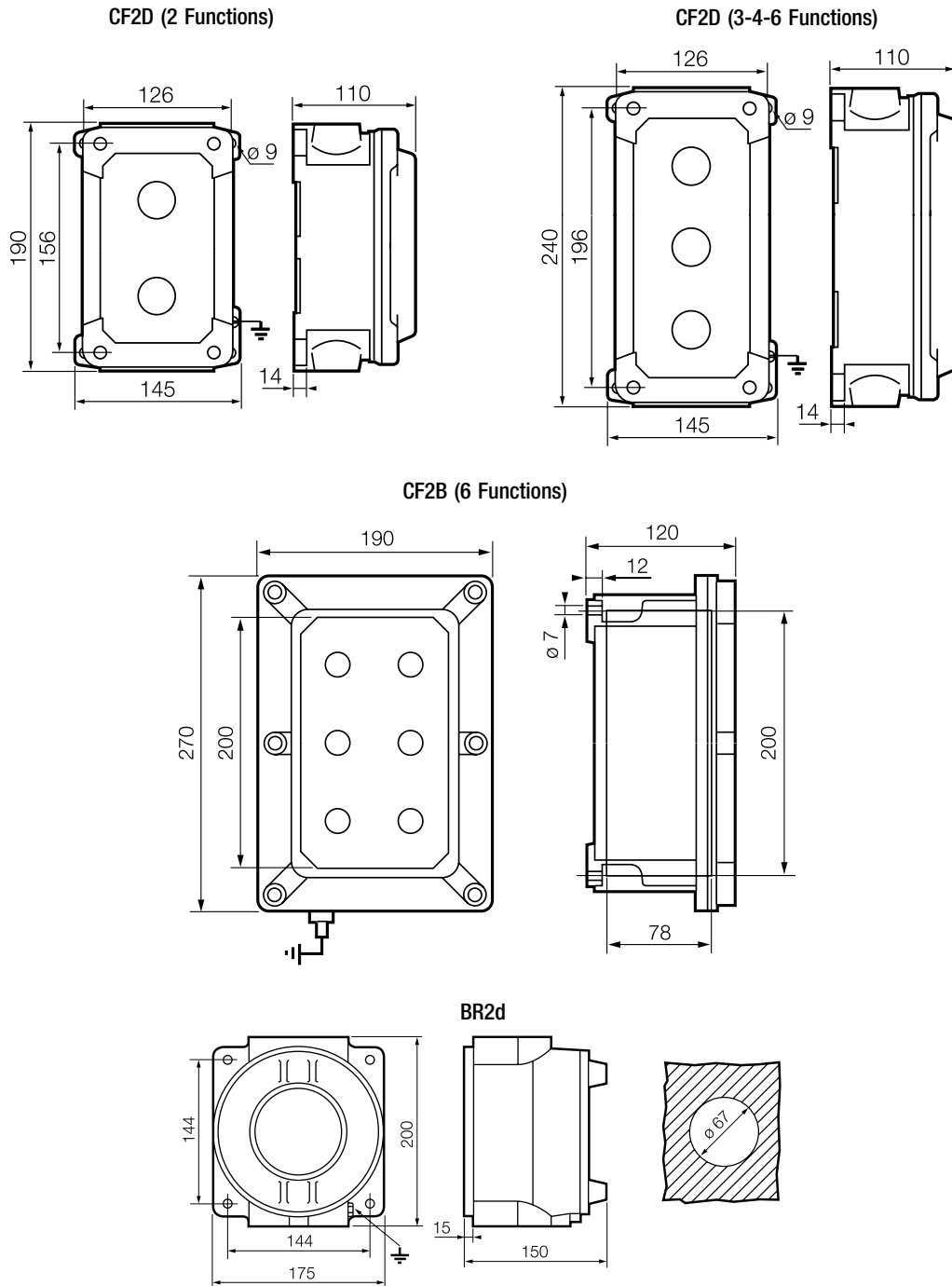
Ex II 2 GD

ATEX / IEC

IP66 - IK10

Dimensions (mm) – Continued:

For TS35 Rail Mounted Operators

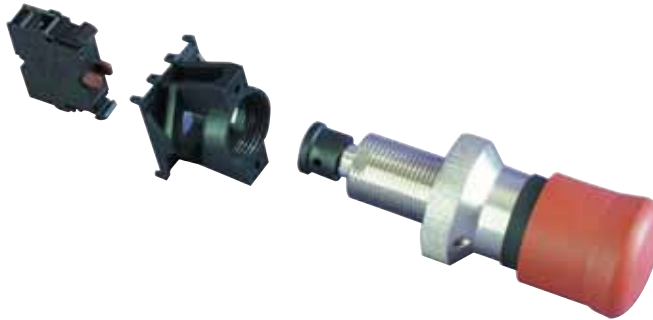


# Control Stations & Switches: Components for Flameproof Enclosures

D Series: Actuators, Pilot Lights, Contact Blocks, Switches and Accessories



Rail Mounted Version



Panel Mounted Version

## Compliance Data:

ATEX - IEC:

Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IEC	CE
Ex d IIC		Ex tD A21		IP66 – IK10

Service Temperature:

-40°C to +60°C				
----------------	--	--	--	--



# Control Stations & Switches: Components for Flameproof Enclosures

## D Series: Actuators, Pilot Lights, Contact Blocks, Switches and Accessories

Zone 1 & 2 - 21 & 22

II 2 GD

ATEX / IEC

IP66 - IK10

### Applications:

- Suitable for use with certified flameproof Ex d enclosures for control equipment.



Rail Mounted



Panel Mounted








### Features:

- DIN rail mounted (TS35) and panel mounted versions.
- Large range of M22 x 1.5 mm screwed actuator operators including, push buttons, rotary actuators, pilot lights, ammeters and selector switches.
- Fully supplied with actuator, shaft, contact block and yellow laminated plastic legend plate with black lettering 60 x 50 mm.

### Ordering Information:

TS35 Rail Mounted Actuators and Contact Blocks

Legend Plate Supplied:

Description/Function	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
 <b>Spring Return Push Button</b> Green spring return 'I' push button with 1NO momentary contact Red spring return 'O' push button with 1NC momentary contact	0.2	0.4	DA5GR	093918	1
	0.2	0.4	DA9RR	093919	1
 <b>Mushroom Head Push Button</b> Red mushroom head spring return with 1NC momentary contact Padlockable in both positions Red mushroom head push pull with 1NC maintained contact Padlockable in both positions Red mushroom head key release with 1NC maintained contact Unlocked with key (MS1)	0.2	0.4	DR9R	093920	1
	0.2	0.4	DD9R	093921	1
	0.2	0.4	DC9R	093922	1
 <b>Rotary Actuator</b> 2 maintained positions with 1NO maintained contact 2 maintained positions key operated with 1NO maintained contact key removable in both positions (MS1)	0.2	0.4	DH5R	094007	1
	0.2	0.4	DG5R	094008	1
 <b>Additional Contacts</b> 1 x NO contact 1 x NC contact	0.1	0.2	DCB5R	093924	5
	0.1	0.2	DCB9R	093923	5
 <b>LED Pilot Lights</b> Red 12 to 30 Vac/Vdc Green 12 to 30 Vac/Vdc White 12 to 30 Vac/Vdc Blue 12 to 30 Vac/Vdc Yellow 12 to 30 Vac/Vdc  Red 48 to 60 Vac/Vdc Green 48 to 60 Vac/Vdc White 48 to 60 Vac/Vdc Blue 48 to 60 Vac/Vdc Yellow 48 to 60 Vac/Vdc  Red 85 to 264 Vac Green 85 to 264 Vac White 85 to 264 Vac Blue 85 to 264 Vac Yellow 85 to 264 Vac	0.1	0.4	DPR12R	093927	1
	0.1	0.4	DPG12R	093928	1
	0.1	0.4	DPW12R	093929	1
	0.1	0.4	DPB12R	093930	1
	0.1	0.4	DPY12R	093951	1
	0.1	0.4	DPR48R	093931	1
	0.1	0.4	DPG48R	093932	1
	0.1	0.4	DPW48R	093933	1
	0.1	0.4	DPB48R	093934	1
	0.1	0.4	DPY48R	093952	1
 <b>Transfer Kit</b> To be used when replacing old range of contacts 094055 & 094056 and old range of indicators 093992-093993 & 094092-094099	0.1	0.4	DPR85R	093935	1
	0.1	0.4	DPG85R	093936	1
	0.1	0.4	DPW85R	093937	1
	0.1	0.4	DPB85R	093938	1
	0.1	0.4	DPY85R	093953	1
 <b>16 A Switches</b> 1-pole switch with non-padlockable handle "0-1" 2-pole switch with non-padlockable handle "0-1" 3-pole switch with non-padlockable handle "0-1" 4-pole switch with non-padlockable handle "0-1"  2 way 1-pole selector switch with non-padlockable handle "1-2" 3 way 1-pole selector switch with non-padlockable handle "1-0-2"	0.3	0.5	DS116R	094064	1
	0.3	0.5	DS216R	094065	1
	0.3	0.5	DS316R		1
	0.3	0.5	DS416R	094066	1
	0.3	0.5	DS21601R	093903	1
	0.3	0.5	DS21602R	093904	1

# Control Stations & Switches: Components for Flameproof Enclosures

## D Series: Actuators, Pilot Lights, Contact Blocks, Switches and Accessories

Zone 1 & 2 - 21 & 22

II 2 GD








ATEX / IEC

IP66 - IK10

### Ordering Information – Continued:

#### Panel Mounted Actuators and Contacts Blocks

#### Legend Plate Supplied:

Description/Function	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
 <b>Spring Return Push Button</b> Green spring return 'I' push button with 1NO momentary contact Red spring return 'O' push button with 1NC momentary contact	0.2	0.4	DA5GP	093913	1
	0.2	0.4	DA9RP	093914	1
 <b>Mushroom Head Push Button</b> Red mushroom head spring return with 1NC momentary contact Padlockable in both positions Red mushroom head push pull with 1NC maintained contact Padlockable in both positions Red mushroom head key release with 1NC maintained contact Unlocked with key (MS1)	0.2	0.4	DR9P	093915	1
	0.2	0.4	DD9P	093916	1
	0.2	0.4	DC9P	093917	1
 <b>Rotary Actuator</b> 2 maintained positions with 1NO maintained contact 2 maintained positions key operated with 1NO maintained contact key removable in both positions (MS1)	0.2	0.4	DH5P	094012	1
	0.2	0.4	DG5P	094013	1
 <b>Additional Contacts</b> 1 x NO contact 1 x NC contact	0.1	0.2	DCB5P	093926	5
	0.1	0.2	DCB9P	093925	5
 <b>LED Pilot Lights</b> Red 12 to 30 Vac/Vdc Green 12 to 30 Vac/Vdc White 12 to 30 Vac/Vdc Blue 12 to 30 Vac/Vdc Yellow 12 to 30 Vac/Vdc Red 48 to 60 Vac/Vdc Green 48 to 60 Vac/Vdc White 48 to 60 Vac/Vdc Blue 48 to 60 Vac/Vdc Yellow 48 to 60 Vac/Vdc Red 85 to 264 Vac Green 85 to 264 Vac White 85 to 264 Vac Blue 85 to 264 Vac Yellow 85 to 264 Vac	0.1	0.4	DPR12P	093939	1
	0.1	0.4	DPG12P	093940	1
	0.1	0.4	DPW12P	093941	1
	0.1	0.4	DPB12P	093942	1
	0.1	0.4	DPY12P	093954	1
	0.1	0.4	DPR48P	093943	1
	0.1	0.4	DPG48P	093944	1
	0.1	0.4	DPW48P	093945	1
	0.1	0.4	DPB48P	093946	1
	0.1	0.4	DPY48P	093956	1
	0.1	0.4	DPR85P	093947	1
	0.1	0.4	DPG85P	093948	1
	0.1	0.4	DPW85P	093949	1
	0.1	0.4	DPB85P	093950	1
0.1	0.4	DPY85P	093957	1	
 <b>Transfer Kit</b> To be used when replacing old range of contacts 094057 & 094058 and old range of indicators 093990-093991 & 094090-094091	0.2	0.4	093959	093959	1
 <b>16 A Switches</b> 1-pole switch with non-padlockable handle "0-1" 2-pole switch with non-padlockable handle "0-1" 3-pole switch with non-padlockable handle "0-1" 4-pole switch with non-padlockable handle "0-1" 2 way 1-pole selector switch with non-padlockable handle "1-2" 3 way 1-pole selector switch with non-padlockable handle "1-0-2" 2 way 2-pole selector switch with non-padlockable handle "1-2" 3 way 2-pole selector switch with non-padlockable handle "1-0-2"	0.3	0.5	DS116P	–	1
	0.3	0.5	DS216P	–	1
	0.3	0.5	DS316P	–	1
	0.3	0.5	DS416P	–	1
	0.3	0.5	DS21601P	–	1
	0.3	0.5	DS21602P	–	1
	0.3	0.5	DS41601P	–	1
	0.3	0.5	DS41602P	–	1

# Control Stations & Switches: Components for Flameproof Enclosures

## D Series: Actuators, Pilot Lights, Contact Blocks, Switches and Accessories






Zone 1 & 2 - 21 & 22

II 2 GD

ATEX / IEC

IP66 - IK10

### Accessories:

Description/Function	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
<b>Spare Shrouds for Spring Return Push Buttons</b>					
 Green shroud marked "I"	0.1	0.2	DSG	093750	10
Red shroud marked "0"	0.1	0.2	DSR	093751	10
Green shroud marked "start"	0.1	0.2	DSS	–	10
Red shroud marked "A Réarmement"	0.1	0.2	DSA	–	10
Black shroud (unmarked)	0.1	0.2	DSN	093752	10
Blue shroud (unmarked)	0.1	0.2	DSB	–	10
<b>Aluminum Guard Painted Red</b>					
Mushroom head actuator protection			DGD1A	–	1
<b>Stainless Steel Padlocking Devices</b>					
For spring return push button			DPLD1S	096188	1
For rotary actuator, red mushroom head spring return or push-pull			DPLD2S	–	1
<b>Spare Lenses for Pilot Lights</b>					
 Red	0.1	0.2	DPRENS	094086	10
Green	0.1	0.2	DPGLENS	094085	10
White	0.1	0.2	DPWLENS	094087	10
Blue	0.1	0.2	DPBLENS	–	10
Yellow	0.1	0.2	DPYLENS	094089	10
<b>Spare Handle for Switches</b>					
 Non-padlockable handle	0.02	0.2	DSNPH	094000	1
 Padlockable handle 48 x 48 mm	0.06	0.3	DSPH	094001	1
<b>Laminated Plastic Legend Plate with Black Lettering</b>					
Large size 60 x 50 mm			DLP00	093785	1
Small size 45 x 31.2 mm			DLP01	093787	1
<b>Blanking Plug</b>					
 Used to close-up unused openings on cover M22 x 1.5 mm	0.02	0.2	DBPM22	094098	1

# Control Stations & Switches: Components for Flameproof Enclosures

## D Series: Actuators, Pilot Lights, Contact Blocks, Switches and Accessories

Zone 1 & 2 - 21 & 22

II 2 GD

ATEX / IEC

IP66 - IK10

### Ordering Information – Continued:

#### AC Ammeter 48 x 48 mm:

Connection on Current Transformer

Deflection 90°

Class 1.5

Round Barrel



Description	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
<b>Rail Mounted</b>					
1A C.T. 3 x F.L.C.	with 0-1-3 Scale	0.1	0.4	DMA1348R	– 1
1A C.T. 5 x F.L.C.	with 0-1-5 Scale	0.1	0.4	DMA1548R	– 1
1A C.T. 6 x F.L.C.	with 0-1-6 Scale	0.1	0.4	DMA1648R	– 1
<b>Panel Mounted</b>					
1A C.T. 3 x F.L.C.	with 0-1-3 Scale	0.1	0.4	DMA1348P	– 1
1A C.T. 5 x F.L.C.	with 0-1-5 Scale	0.1	0.4	DMA1548P	– 1
1A C.T. 6 x F.L.C.	with 0-1-6 Scale	0.1	0.4	DMA1648P	– 1
<b>Accessories:</b>					
<b>Red Adjustable Index</b>					
			DM48A	–	1

#### Accessories:

#### Red Adjustable Index

DM48A

1

#### Interchangeable Dials for Above Ammeter:

##### For 1 A Current Transformer 3 x F.L.C.

Scale	Catalog Number	Old Catalog Number
0 - 5 - 15 A	DA135	098861
0 - 10 - 30 A	DA1310	098862
0 - 15 - 45 A	DA1315	098863
0 - 20 - 60 A	DA1320	098864
0 - 30 - 90 A	DA1330	098865
0 - 40 - 120 A	DA1340	098866
0 - 50 - 150 A	DA1350	098867
0 - 60 - 180 A	DA1360	098868
0 - 75 - 225 A	DA1375	098869
0 - 100 - 300 A	DA13100	098870
0 - 125 - 375 A	DA13125	098871
0 - 150 - 450 A	DA13150	098872
0 - 200 - 600 A	DA13200	098873
0 - 250 - 750 A	DA13250	098874

##### For 1 A Current Transformer 5 x F.L.C.

Scale	Catalog Number	Old Catalog Number
0 - 5 - 25 A	DA155	098875
0 - 10 - 50 A	DA1510	098876
0 - 15 - 75 A	DA1515	098877
0 - 20 - 100 A	DA1520	098878
0 - 30 - 150 A	DA1530	098879
0 - 40 - 200 A	DA1540	098880
0 - 50 - 250 A	DA1550	098881
0 - 60 - 300 A	DA1560	098882
0 - 75 - 375 A	DA1575	098883
0 - 100 - 500 A	DA15100	098884
0 - 125 - 625 A	DA15125	098885
0 - 150 - 750 A	DA15150	098886
0 - 200 - 1000 A	DA15200	098887
0 - 250 - 1250 A	DA15250	098888

##### For 1 A Current Transformer 6 x F.L.C.

Scale	Catalog Number	Old Catalog Number
0 - 5 - 30 A	DA165	098889
0 - 10 - 60 A	DA1610	098890
0 - 15 - 90 A	DA1615	098891
0 - 20 - 120 A	DA1620	098892
0 - 30 - 180 A	DA1630	098893
0 - 40 - 240 A	DA1640	098894
0 - 50 - 300 A	DA1650	098895
0 - 60 - 360 A	DA1660	098896
0 - 75 - 450 A	DA1675	098897
0 - 100 - 600 A	DA16100	098898
0 - 125 - 750 A	DA16125	098899
0 - 150 - 900 A	DA16150	098900
0 - 200 - 1200 A	DA16200	098901
0 - 250 - 1500 A	DA16250	098902

##### For 5 A Current Transformer 3 x F.L.C.

Scale	Catalog Number	Old Catalog Number
0 - 5 - 15 A	DA535	098903
0 - 10 - 30 A	DA5310	098904
0 - 15 - 45 A	DA5315	098905
0 - 20 - 60 A	DA5320	098906
0 - 30 - 90 A	DA5330	098907
0 - 40 - 120 A	DA5340	098908
0 - 50 - 150 A	DA5350	098909
0 - 60 - 180 A	DA5360	098910
0 - 75 - 225 A	DA5375	098911
0 - 100 - 300 A	DA53100	098912
0 - 125 - 375 A	DA53125	098913
0 - 150 - 450 A	DA53150	098914
0 - 200 - 600 A	DA53200	098915
0 - 250 - 750 A	DA53250	098916

##### For 5 A Current Transformer 5 x F.L.C.

Scale	Number	Catalog Number	Old Catalog
0 - 5 - 25 A	A	DA555	098917
0 - 10 - 50 A	A	DA5510	098918
0 - 15 - 75 A	A	DA5515	098919
0 - 20 - 100 A	A	DA5520	098920
0 - 30 - 150 A	A	DA5530	098921
0 - 40 - 200 A	A	DA5540	098922
0 - 50 - 250 A	A	DA5550	098923
0 - 60 - 300 A	A	DA5560	098924
0 - 75 - 375 A	A	DA5575	098925
0 - 100 - 500 A	A	DA55100	098926
0 - 125 - 625 A	A	DA55125	098927
0 - 150 - 750 A	A	DA55150	098928
0 - 200 - 1000 A	A	DA55200	098929
0 - 250 - 1250 A	A	DA55250	098930

##### For 5 A Current Transformer 6 x F.L.C.

Scale	Number	Catalog Number	Old Catalog
0 - 5 - 30 A	A	DA565	098931
0 - 10 - 60 A	A	DA5610	098932
0 - 15 - 90 A	A	DA5615	098933
0 - 20 - 120 A	A	DA5620	098934
0 - 30 - 180 A	A	DA5630	098935
0 - 40 - 240 A	A	DA5640	098936
0 - 50 - 300 A	A	DA5650	098937
0 - 60 - 360 A	A	DA5660	098938
0 - 75 - 450 A	A	DA5675	098939
0 - 100 - 600 A	A	DA56100	098940
0 - 125 - 750 A	A	DA56125	098941
0 - 150 - 900 A	A	DA56150	098942
0 - 200 - 1200 A	A	DA56200	098943
0 - 250 - 1500 A	A	DA56250	098944

# Control Stations & Switches: Components for Flameproof Enclosures

## D Series: Actuators, Pilot Lights, Contact Blocks, Switches and Accessories

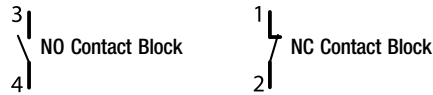
Zone 1 & 2 - 21 & 22

II 2 GD

ATEX / IEC

IP66 - IK10

### Technical Data:



Contact Block:	
Insulation Voltage (Ui)	500 V
Switching Capacity	AC 15 4 A/115 V 4 A/230 V 2 A/500 V DC 13 3 A/24 V 1.7 A/42 V 1.2 A/60 V 0.3 A/220 V
Terminal connections	0.75 to 2.5 mm <sup>2</sup>
Operation life	>5,000,000 Operations



LED Pilot Light:	
Rated Voltage	85-264 Vac, 50/60 Hz
Rating	5-15mA
Max. Power	0.33 W
Operation life	Average 100,000 Hours at +25°C

### 16 A Selector Switch:

Rated insulation voltage		690 V
Thermal rating		20 A
AC 21		16 A
AC 15		6 A
AC 23	3 x 230 V	4 KW
	3 x 400 V	7.5 KW
	3 x 500 V	5.5 KW
	3 x 690 V	4 KW
AC 3	3 x 230 V	3 KW
	3 x 400 V	4 KW
	3 x 500 V	5.5 KW
	3 x 690 V	3 KW
Terminal connections (flexible/solid)		2.5 mm <sup>2</sup> /4 mm <sup>2</sup>

### 16 A Selector Switch:

DS116	
Positions	1-2
0	
1	X

DS216		
Positions	1-2	3-4
0		
1	X	X

DS316			
Positions	1-2	3-4	5-6
0			
1	X	X	X

DS416				
Positions	1-2	3-4	5-6	7-8
0				
1	X	X	X	X

DS21601		
Positions	1-2	3-4
1	X	
2		X

DS21602		
Positions	1-2	3-4
1	X	
0		
2		X

DS41601				
Positions	1-2	3-4	5-6	7-8
1	X		X	
2		X		X

DS41602				
Positions	1-2	3-4	5-6	7-8
1	X		X	
0				
2		X		X

X Contact closed

### Compliances:

Hazardous Area	Gas	Dust
Certification Type	TCD	
Zones	1-2	21-22
Conforming to ATEX 94/9/CE	0081ⒺII 2 G	0081ⒺII 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	NA	NA
Surface Temperature	NA	NA
Service Temperature	-40°C to +60°C	
CE Declaration of Conformity	5C213	
ATEX Certificate	LCIE 02 ATEX 0036 U	
IEC Certificate	LCIE Ex 02.026 U	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	

### Standards:

Ex Standards	EN / IEC 60079-0; 60079-1; 61241-0; 61241-1
Product Standards	-
EMC Standards	-
Other Standards	EN / IEC 60529 (IP); 62262 (IK)

# Control Stations & Switches: Components for Flameproof Enclosures

## D Series: Actuators, Pilot Lights, Contact Blocks, Switches and Accessories

Zone 1 & 2 - 21 & 22

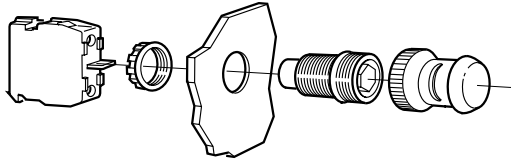
II 2 GD

ATEX / IEC

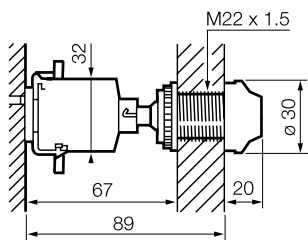
IP66 - IK10

Dimensions (mm):

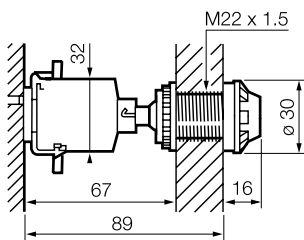
Rail Mounted:



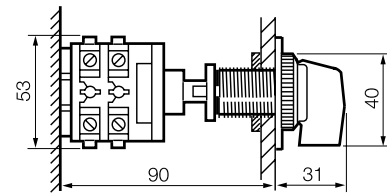
Rail Mounted Push Button



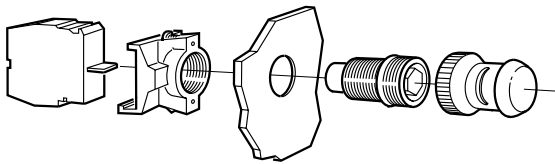
Rail Mounted Pilot Light



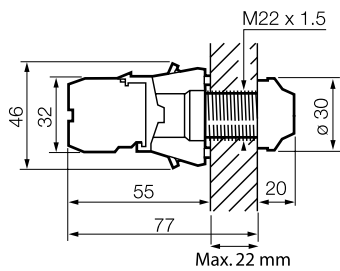
Back Mounted Switch



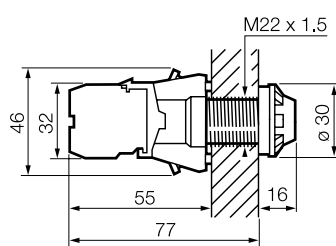
Panel Mounted:



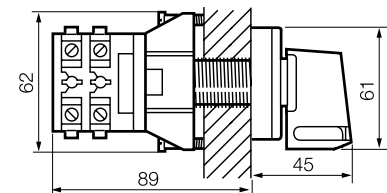
Panel Mounted Push Button



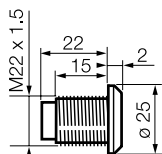
Panel Mounted Pilot Light



Panel Mounted Switch



Blanking Plug



Ammeter

