



EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

Bosston
A QUALITY PRODUCT



ISO9001:2008

Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-1 or UL 60079-0/1

Marking for test : Ex II2G

Degree of Protection : IP65/66 acc.To IEC 60529

Ambient Temp. (Ta) : -20 °C to + 55 °C

Type : PBS

Protection class for UL. : Class I, Division 1 or 2 Group C,D

Class II, Division 1 or 2 Groups E,F,G

Class III

Protection class for IEC : Zone 1 and Zone 2

Options : Silicone rubber for outdoor IP66 (Type S)

Conduit hub : 3/4" NPT.

Features:

- Compact rectangular shape enclosure.
- Two mounting lugs.
- Round shape operating button with guard.
- Contact rating 3A. 220V.AC. (10A. Rated thermal current).
- Single gang on request.
- 3/4" inch NPT, dead-end or through-feed conduit hub
- Smooth and well-rounded conduit stop in each hub to protect conductor insulation.

Applications:

The PBS push buttons are suitable for installation in hazardous due to the presence of flammable gases or vapors, combustible dusts or ignitable fibers.

use in conjunction with magnetic starters or contactors for remote control of motors.

indoor, outdoor and corrosive locations.

Standard Materials:

- Body and cover - Copper-free aluminium
- Bolts - Stainless steel

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural

Catalogue Number:

Number of contact	Symbol	Nameplate Marking	Cat.,No.	
			Dead-end (1 hub)	Through-feed (2 hub)
Single Gang 1PB				
1NO		START or ON	PBS1-10	PBS1-10H
1NC		STOP or OFF	PBS1-01	PBS1-01H
1NO - 1NC		Specify	PBS1-11	PBS1-11H
2NO		START or ON	PBS1-20	PBS1-20H
2NC		STOP or OFF	PBS1-02	PBS1-20H
Single Gang 2PB				
1NO , 1NO	 	Specify	PBS1-1010	PBS1-1010H
1NC , 1NC	 	Specify	PBS1-0101	PBS1-0101H
1NO , 1NC	 	START,STOP or ON, OFF	PBS1-1001	PBS1-1001H
2NO , 2NO	 	Specify	PBS1-2020	PBS1-2020H
2NC , 2NC	 	Specify	PBS1-0202	PBS1-0202H
2NO , 2NC	 	START,STOP or ON, OFF	PBS1-2002	PBS1-2002H
2(1NO-1NC)	 	FORWARD,REVERSE	PBS1-1111	PBS1-1111H



Single Gang 2PB

Options:

- Silicone rubber on cover pushbutton Type *R* for IP66



PBS Push Buttons

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For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

Catalogue Nubmer:

Number of contact	Symbol	Nameplate Marking	Cat.,No.	
			Dead-end (1 hub)	Through-feed (2 hub)
Single Gang 3PB				
1NO, 1NO, 1NO		Specify	PBS1-AAA	PBS1B-AAA
1NC, 1NC, 1NC		Specify	PBS1-BBB	PBS1B-BBB
2(1NO - 1NC),1NC		FORWARD, REVERSE, STOF	PBS1-CCB	PBS1B-CCB
Single Gang 4PB				
2(1NO , 1NC)		START,STOP or ON, OFF	PBS2-1001	PBS2-1001H
4(1NO , 1NC)		Specify	PBS2-1111	PBS2-1111H
Three Gang 6PB				
3(1NO-1NC)		START,STOP or ON, OFF	PBS3-1001	PBS3-1001H
6(1NO-1NC)		Specify	PBS3-1111	PBS3-1111H

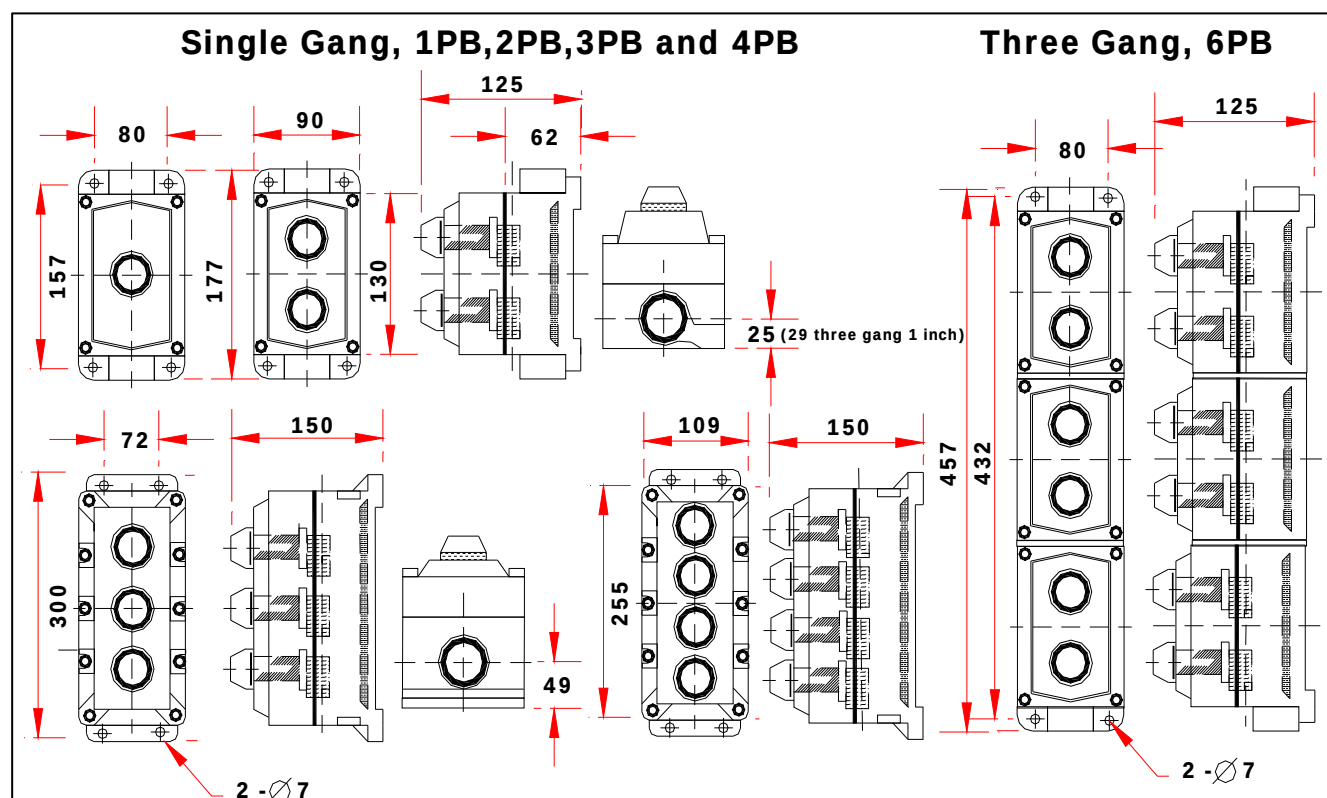


Single Gang 4PB



Three Gang 6PB

Dimensions: (in mm.)



PBS2 Push Buttons

Bosston
A QUALITY PRODUCT

EXPLOSIONPROOF

For UL.60079-1 Standard Class I Div. 1,2 Groups C,D

Class II Div.1,2 Groups E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



ISO9001:2008

Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-1 or UL 60079-0/1

Marking for test : Ex II2G

Degree of Protection : IP54/65 acc.To IEC 60529

Ambient Temp. (Ta) : -20 °C to+ 55 °C

Type :PBS 2

Protection class for UL. : Class I, Division 2 Group.C,D

Class II, Division 1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2

Conduit hub : 3/4" NPT.

Applications:

The PBS2 push buttons are suitable for installation in hazardous areas due to the presence of flammable gases or vapors,combustible dusts or ignitable fibers. use in conjunction with magnetic for remote control . indoor indamp, or wet or corrosive locations.

Features:

- Compact rectangular shape enclosure.
- Two mounting lugs.
- Round shape operating button with guard.
- Contact rating 3A. 220V.AC. (10A. Rated thermal current).
- Single gang ,two gang, or three gang on request.
- 3/4" inch NPT, dead-end or through-feed conduit hub
- Smooth and well-rounded conduit stop in each hub to protect conductor insulation.

Standard Materials:

- Body and cover - Copper-free aluminium
- Bolts and operating shaft - Stainless steel

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural

Options:

- Typical Installations for *IP 65*

Catalogue Nubmer:

Number of contact	Symbol	Nameplate Marking	Cat.,No.	
			Dead-end (1 hub)	Through-feed (2 hub)
Single Gang 2PB 1NO , 1NC		START,STOP or ON, OFF	PBS2-11	PBS2B-11
Two Gang 4PB 2(1NO , 1NC)		START,STOP or ON, OFF	PBS2-22	PBS2B-22



PBS2-11



PBS2-22

PBS2 Push Buttons

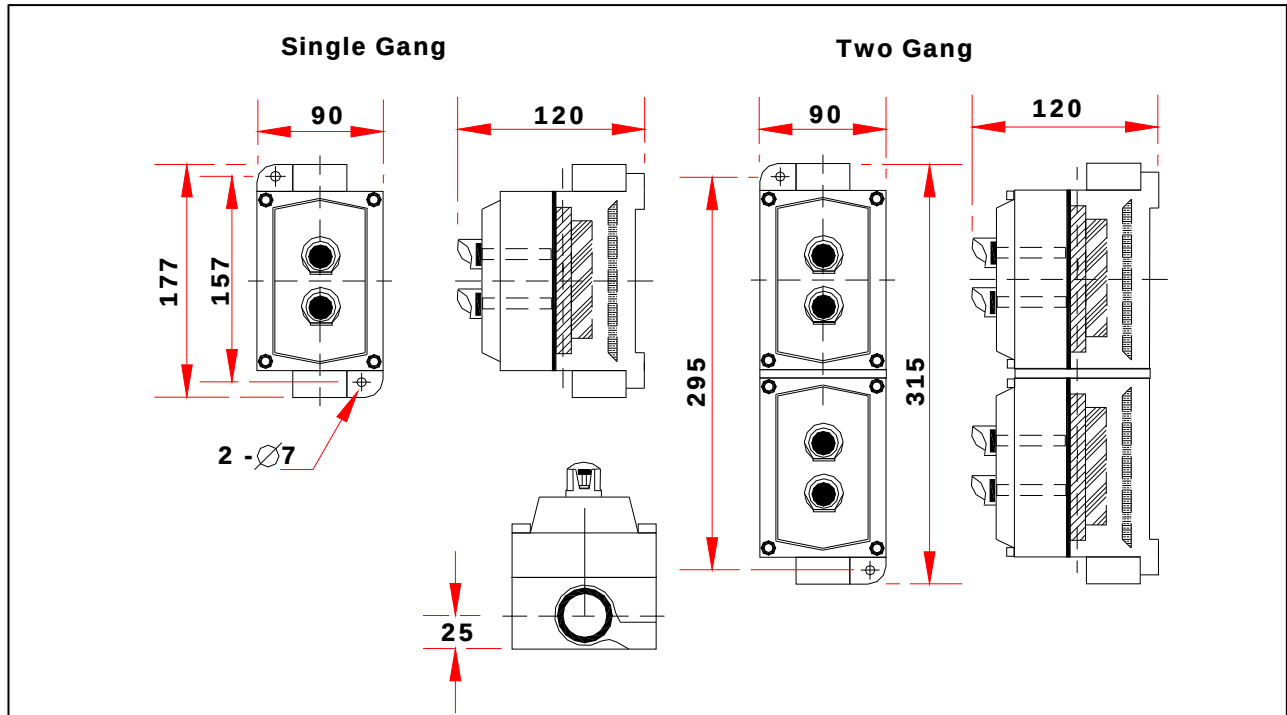
EXPLOSIONPROOF

For UL.60079-1 Standard Class I Div. 1,2 Groups C,D

Class II Div.1,2 Groups E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

● **Dimensions: (in mm.)**



PBS3(Push Lock) Push Buttons


Bosston

A QUALITY PRODUCT

EXPLOSIONPROOF

For UL.60079-1 Standard Class I Div.1, 2 Groups C,D

Class II Div. 1,2 Groups E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



ISO9001:2008

Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-1 or UL 60079-0/1

Marking for test : Ex II2G

Degree of Protection : IP54/65 acc.To IEC 60529

Ambient Temp. (Ta) : -20 °C to + 55 °C

Type :PBS 3

Protection class for UL. : Class I, Division 2 Group.C,D

Class II, Division 1, 2 Groups.E,F,G

Class III

Protection class for IEC : Zone 1 and Zone 2

Conduit hub : 3/4" NPT.

Features:

- Compact rectangular shape enclosure.
- Two mounting lugs.
- For open,close motor 1/2 Hp. - 1Hp. 220/380V.
- Single gang on request.
- 2 x 3/4" inch NPT, (through-feed conduit hub).
- 220 - 380 VAC. 3P 15A.

Standard Materials:

- Body and cover - Copper-free aluminium
- Bolts and operating shaft - Stainless steel

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural

Applications:

The PBS3 push buttons are suitable for installation in hazardous areas due to the presence of flammable gases or vapors,combustible dusts or ignitable fibers. use in conjunction with magnetic for remote control . indoor indamp, or wet or corrosive locations.

Options:

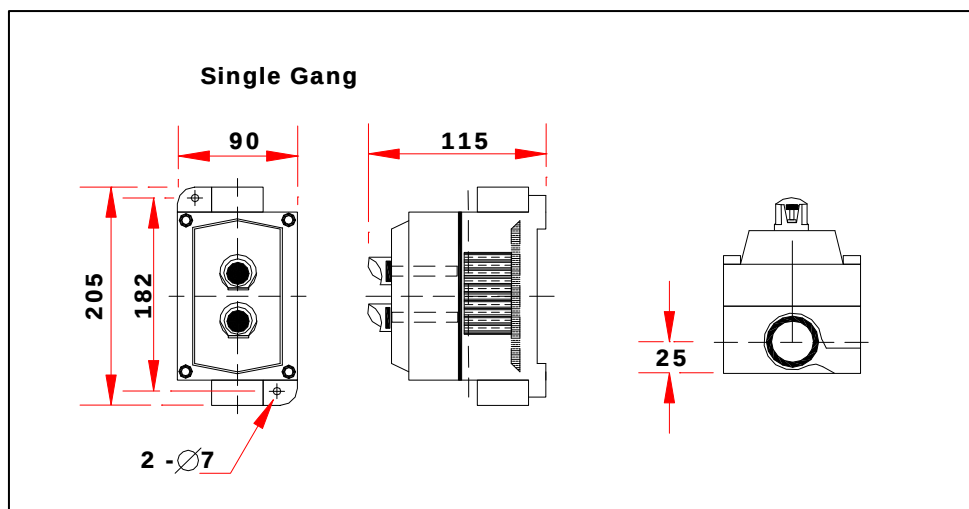
- Typical Installations for IP 65

Catalogue Nubmer:

Number of contact	Symbol	Nameplate Marking	Cat.,No.	
			Dead-end (1 hub)	Through-feed (2 hub)
Single Gang 2PB 1NO , 1NC		ON, OFF	PBS3-01	PBS3B-02



Dimensions: (in mm.)



EPL Pilot Lights



EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



ISO9001:2008

● Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0/1 or UL 60079-0/1

Marking for test : Ex II2G

Degree of Protection : IP65/66 acc.To IEC 60529

Ambient Temp. (Ta) : -20°C to+ 55°C

Type :EPL

Protection class for UL. : Class I, Division1 or 2 Group.C,D

Class II, Division 1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2

Options : Silicone rubble for installation outdoor IP66 (Type S)

Conduit hub : 3/4" NPT.

● Applications:

The EPL pilot lights are suitable for

use in hazardous areas due to the presence of flammable gases or vapors, combustible dusts or ignitable fibers.

local or remote stations where indicating of electrical function is required.

indoor, outdoor and corrosive locations.

- **Features:**

- Compact rectangular shape enclosure.
- Two mounting lugs.
- Incandescent lamp 6.3V. 1W. With transformer for 110V. 220V. Or 380V.AC. Supply.
- Brass guard to protect lamp bulb.
- Single gangs, two gangs or three gangs on request.
- 3/4" inch NPT, dead-end or through-feed conduit hub
- Smooth and well-rounded conduit stop in each hub to protect conductor insulation.

- **Standard Materials:**

- | | |
|------------------|-------------------------|
| - Body and cover | - Copper-free aluminium |
| - Bolts | - Stainless steel |
| - Lamp's guard | - Brass |

● **Standard Finishes:**

- Copper-free aluminium
- Stainless steel
- Brass
- Epoxy-polyester powder
- Natural
- Chromium plated

● **Catalogue Nubmer:**

Number of Lamps	Symbol	Nameplate Marking	Cat., No.	
			Dead-end (1 hub)	Through-feed (2 hub)
Single Gang				
1		Specify for	EPL1-1	EPL1B-1
2		RUN ,STOP,	EPL1-2	EPL1B-2
3		ON, OFF	EPL1-3	EPL1B-3
Two Gangs				
2		Specify for	EPL2-2	EPL2B-2
4		RUN ,STOP, ON, OFF	EPL2-4	EPL2B-4

Note:

- ☐ Specify operating voltage code for lamp's transformer to Cat.,No.
- 1 - 110V.AC., 2 - 220V.AC., 3 - 380V.AC.
4 - 12V.DC., 5 - 24V.DC.
- ✧ Specify lens colour code to Cat.,No.
- R - Red., G - Green, O - Orange,
B - Blue, W - White



EPL1-12R



EPL1-22GR



EPL1-32YGR

EPL Pilot Lights

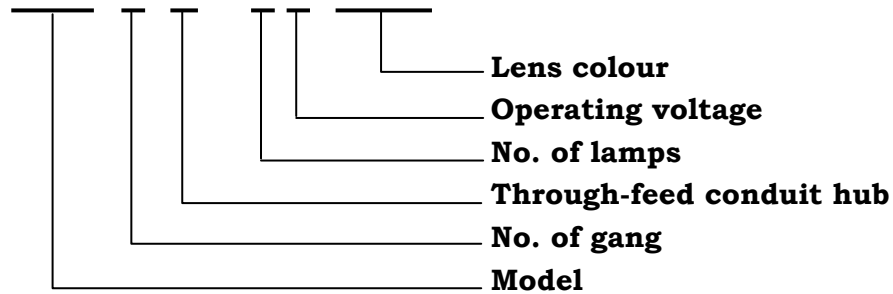
EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

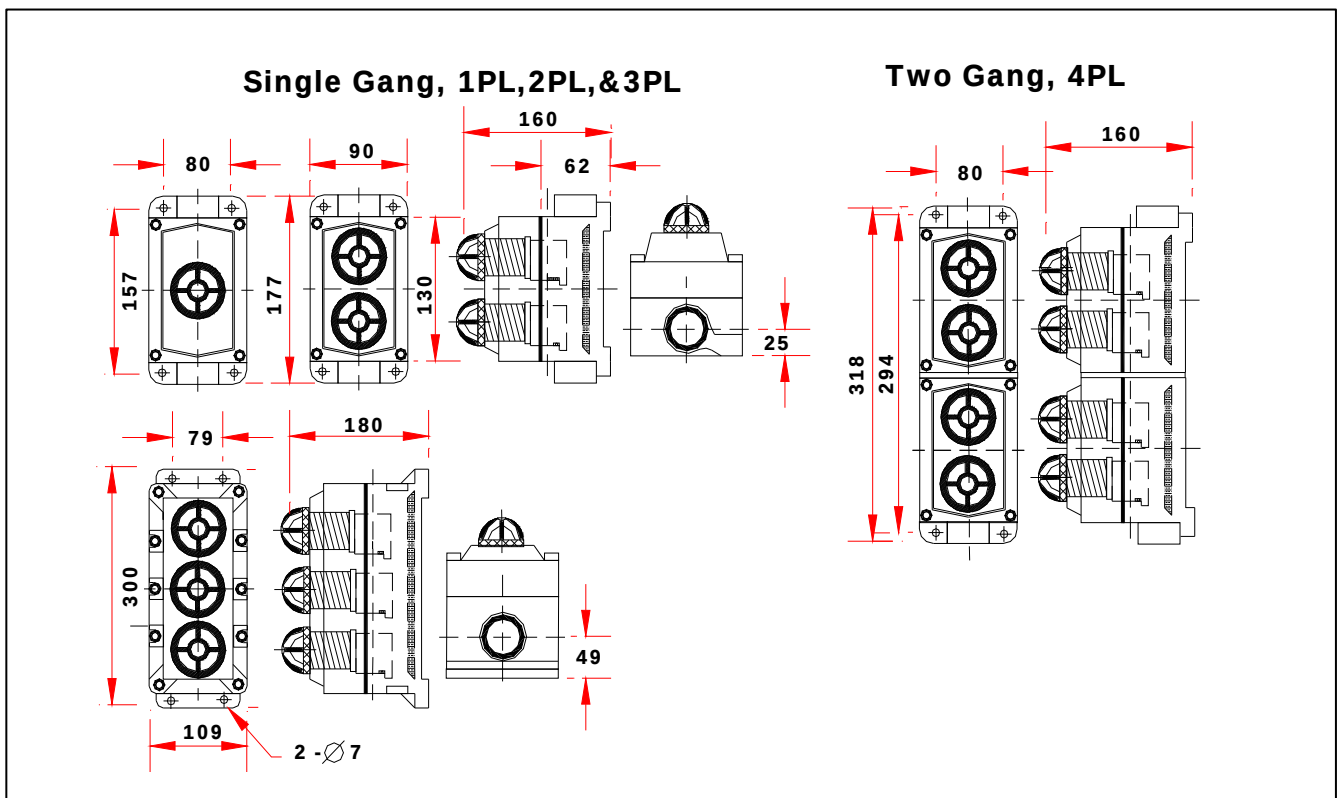
For IEC.60079-0/1 Standard Zone 1 and Zone 2

Ordering Information:

EPL 1 B - 32 GRO



Dimensions: (in mm.)



PPBL Combination

Push Buttons and Pilot Lights



A QUALITY PRODUCT

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



- **Technical data**

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0/1 or UL 60079-0/1

Marking for test : Ex II2G

Degree of Protection : IP65/66 acc.To IEC 60529

Ambient Temp. (Ta) : -20°C to + 55°C

Type : PPBL

Protection class for UL. : Class I, Division1 or 2 Group.C,D

Class II, Division 1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2

Options : Silicone rubble for installation outdoor IP66 (Type S)

Conduit hub : 3/4" NPT.

- **Applications:**

The PPBL combination push buttons and pilot lights are suitable for use in hazardous areas due to the presence of flammable gases or vapors, combustible dusts or ignitable fibers.

use in conjunction with magnetic starters or contactors for remote control of motors and also indicating the electrical function is being performed.

indoor and corrosive locations.

● **Catalogue Nubmer:**

- Features:

ISO9001:2008

- Compact rectangular shape enclosure.
- Two mounting lugs.
- Round shape operating button with guard.
- Contact rating 3A. 220V.AC. (10A. Rated thermal current).
- Incandescent lamp 6.3V. 1W. With transformer for 110V., 220V.AC. And Direct lamp for 12 - 24 V.DC. Supply.
- Brass guard to protect lamp bulb.
- 3/4 inch NPT, dead-end or through-feed conduit hub
- Smooth and well-rounded conduit stop in each hub to protect conductor insulation.

Standard Materials:

- Body and cover - Copper-free aluminium
- Bolts and operating shaft - Stainless steel
- Lamp's guard - Brass

- **Standard Finishes:**

- Copper-free aluminium
- Stainless steel
- Brass
- Epoxy-polyester powder
- Natural
- Chromium plated

● Options:

- Silicone rubber on cover pushbutton Type *R* for IP66

Lamps + Push Buttons	Symbol	Nameplate Marking	Cat.,No.	
			Dead-end (1 hub)	Through-feed (2 hub)
Single Gang				
1PL + 1 PB(1NO)		RUN ,START	PPBL1-10	PPBL1B-10
1PL + 1 PB(1NC)		<i>Specify</i>	PPBL1-01	PPBL1B-01
1PL + 1 PB(1NO-1NC)		<i>Specify</i>	PPBL1-11	PPBL1B-11
1PL + 2 PB(1NO,1NC)		RUN ,START,STOP	PPBL1-1001	PPBL1B-1001
1PL + 2 PB2(1NO-1NC)		RUN ,START,STOP	PPBL1-1111	PPBL1B-1111
2PL + 2 PB(1NO,1NC)		<i>Specify</i>	PPBL1-1001	PPBL1B-1001
2PL + 2 PB2(1NO-1NC)		<i>Specify</i>	PPBL1-1111	PPBL1B-1111

Note:

- ☐ Specify operating voltage code for lamp's transformer to Cat.,No.
- 1 - 110V.AC., 2 - 220V.AC., 3 - 380V.AC.
4 - 12V.DC... 5 - 24V.DC.

- ✦ Specify lens colour code to Cat.,No.
R - Red., G - Green, O - Orange,
B - Blue, W - White



PPBL1 -1001 G



PPBL1-1001GR

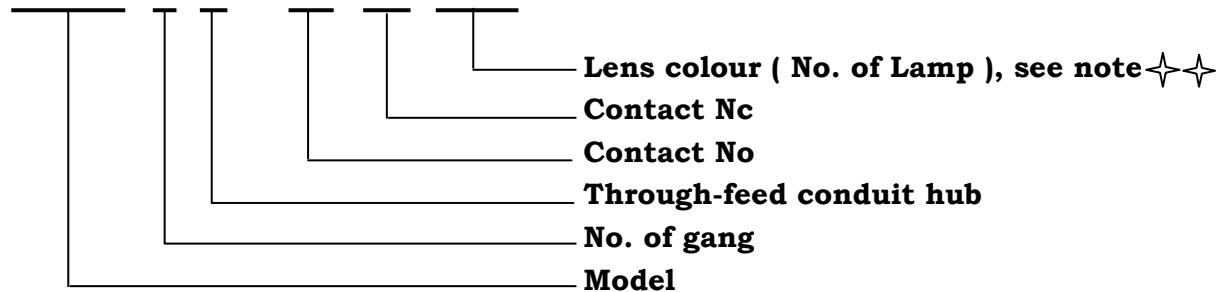
PPBL Combination Push Buttons and Pilot Lights

EXPLOSIONPROOF

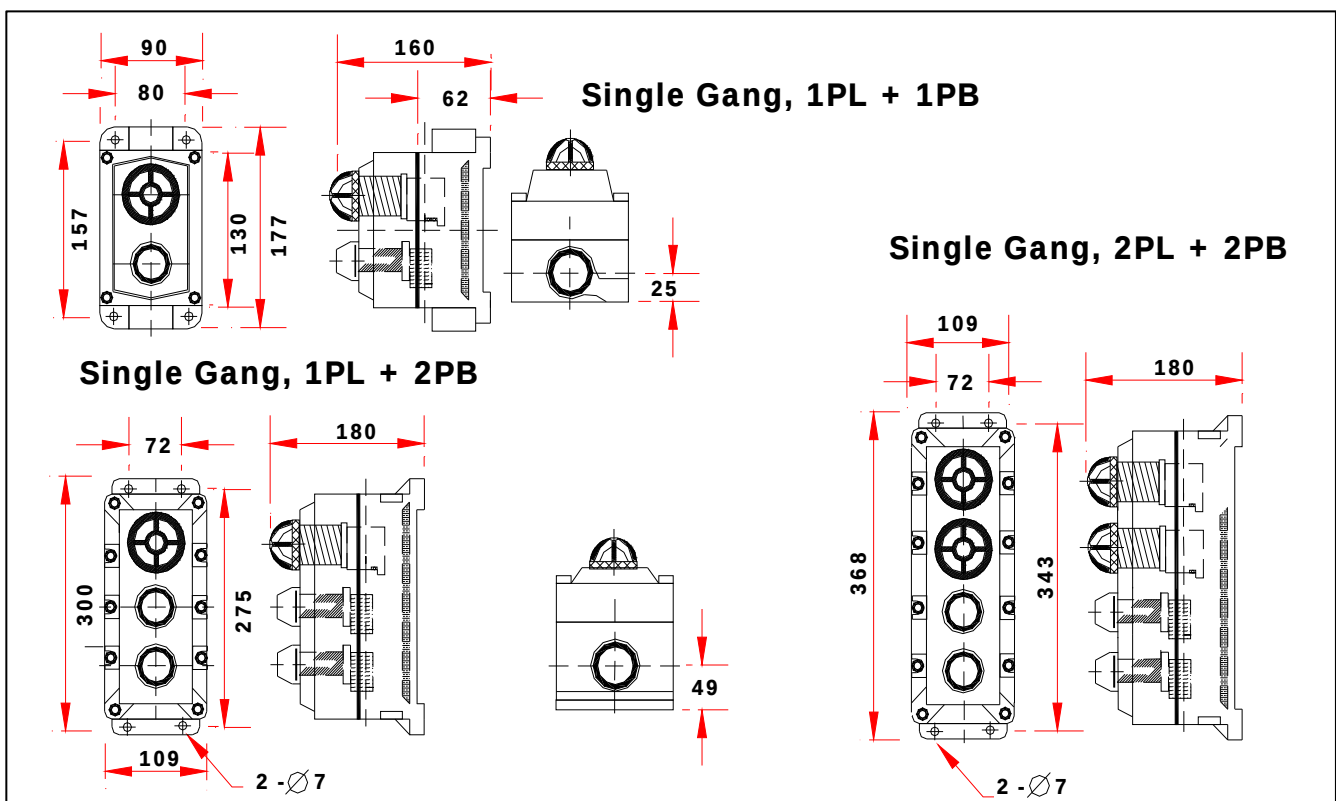
For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

Ordering Information:

PPBL 1 B - 10 01 GR

Dimensions: (in mm.)





PBL3 Combination Push Buttons and Pilot Lights



EXPLOSIONPROOF

A QUALITY PRODUCT For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G
For IEC.60079-0/1 Standard Zone 1 and Zone 2



ISO9001:2008

Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0/1 or UL 60079-0/1

Marking for test : Ex II2G

Degree of Protection : IP54/65 acc.To IEC 60529

Ambient Temp. (Ta) : -20 °C to + 55 °C

Type : PPBL

Protection class for UL. : Class I, Division 1 or 2 Group C,D

Class II, Division 1 or 2 Groups E,F,G

Class III

Protection class for IEC : Zone 1 and Zone 2

Options : Silicone rubber for installation outdoor IP66 (Type S)

Conduit hub : 3/4" NPT.

Features:

- Compact rectangular shape enclosure.
- Two mounting lugs.
- Push button ON-OFF, contact rating 3A 220VAC.
- Incandescent lamp 6.3V. 1W. With transformer for 110V., 220V.AC. And Direct lamp for 12 - 24 V.DC. Supply.
- 3/4 inch NPT, dead-end or through-feed conduit hub

Standard Materials:

- Body and cover - Copper-free aluminium
- Bolts and operating shaft - Stainless steel
- Lamp's guard - Brass

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural
- Brass - Chromium plated

Options:

- Typical Installations for IP 65

Applications:

The PBL3 Push button with lamp are suitable for

In control junction with magnetic starters or contactors for remote control of motors.

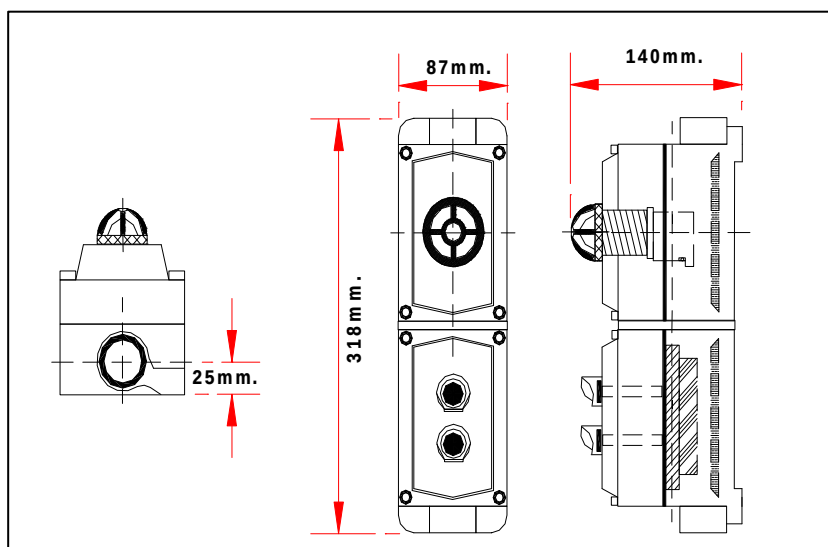
To visually indicate at remote location that the desired function is being performed.

Catalogue Number:

Lamps + Push Buttons	Symbol	Nameplate Marking	Cat.,No.	
			Dead-end (1 hub)	Through-feed (2 hub)
Two Gang				
1PL + 2 PB(1NO,1NC)		RUN ,START,STOP	PBL31-1	PBL32-



Dimensions: (in mm.)



Note:

Specify operating voltage code for lamp's

☐ transformer to Cat.,No.

1 - 110V.AC., 2 - 220V.AC., 3 - 380V.AC.

4 - 12V.DC., 5 - 24V.DC.

Specify lens colour code to Cat.,No.

R - Red., G - Green, O - Orange,

B - Blue, W - White

SSL Selector Switches

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



ISO9001:2008

- **Technical data**

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-1 or UL 60079-0/1

Marking for test : Ex II2G

Degree of Protection : IP65/66 acc.To IEC 60529

Ambient Temp. (Ta) : -20°C to+ 55°C

Type :SSL

Protection class for UL. : Class I, Divition1 or 2 Group.C,D

Class II, Division 1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2

Options : Silicone rubble for outdoor IP66 (Type S)

Conduit hub : 3/4" NPT.

- **Applications:**

The SSL selector switches are suitable for

- use in hazardous areas due to the presence of flammable gases or vapors, combustible dusts or ignitable fibers.
- use in conjunction with magnetic starters or contactors for remote control of motors.
- indoor, outdoor and corrosive locations.
- circuit control of motors.

- **Features:**

- Compact rectangular shape enclosure.
- Two mounting lugs.
- Two or three positions in switching.
- Contact rating 3A. 220V.AC. (10A. Rated thermal current).
- Single gang on request.
- 3/4" inch NPT, dead-end or through-feed conduit hub
- Smooth and well-rounded conduit stop in each hub to protect conductor insulation.

- **Standard Materials:**

- Body, cover and handle - Copper-free aluminium
- Bolts and operating shaft - Stainless steel

- **Standard Finishes:**

- Copper-free aluminium
- Epoxy-polyester powder
- Stainless steel
- Natural

- **Options:**

- ☐ For 2-positions with spring return,
add suffix - *P* to Cat.,No.
 - Silicone rubber on cover pushbutton
- Type **S** for IP66

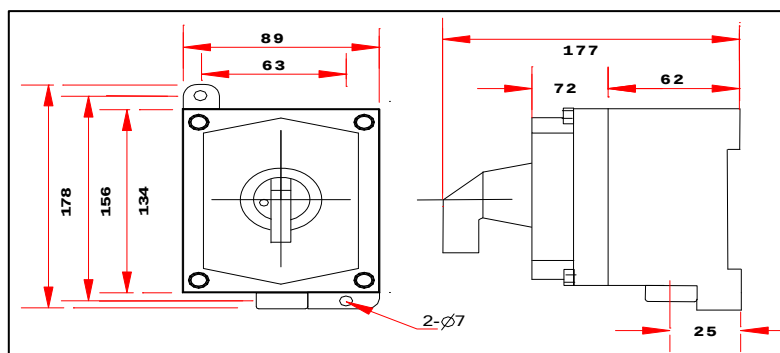
● **Catalogue Nubmer:**

Number of contact	Diagram			Nameplate Marking	Cat.,No.	
	Left	Center	Right		Dead-end (1 hub)	Through-feed (2 hub)
2 - Positions						
1NO		-		OFF - ON	SSL 210 ☐	SSL 210H ☐
2NO		-		OFF - ON	SSL 220 ☐	SSL 220H ☐
1NO - 1NC		-		MAN. - AUTO	SSL 211 ☐	SSL 211H ☐
3 - Positions						
2NO				MAN.-OFF-AUTO.	SSL 320 ☐	SSL 320H ☐
2NC				<i>Specify</i>	SSL 302 ☐	SSL 302H ☐

SSL210



Dimensions: (in mm.)



PEM Emergency Push Buttons

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-1 or UL 60079-0/1

Marking for test : Ex II2G

Degree of Protection : IP65/66 acc.To IEC 60529

Ambient Temp. (Ta) : -20 °C to + 55 °C

Type : PEM

Protection class for UL. : Class I, Division 1 or 2 Group C,D

Class II, Division 1 or 2 Groups E,F,G

Class III

Protection class for IEC : Zone 1 and Zone 2

Options : Silicone rubber for outdoor IP66 (Type S)

Conduit hub : 3/4" NPT.



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Features:

- Compact rectangular shape enclosure.
- Two mounting lugs.
- Large mushroom-head operating button.
- Contact rating 3A. 220V.AC. (10A. Rated thermal current).
- 3/4" inch NPT, dead-end or through-feed conduit hub
- Smooth and well-rounded conduit stop in each hub to protect conductor insulation.

Standard Materials:

- Body and cover - Copper-free aluminium
- Bolts and operating shaft - Stainless steel

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural

Options:

- Silicone rubber on cover pushbutton
Type S for IP66
- 1/2 inch NPT size conduit hub.

Applications:

The PEM emergency push buttons are used

- for hazardous areas due to the presence of flammable gases or vapors, combustible dusts or ignitable fibers.
- as emergency or normal "STOP" switch for conveyor lines, cranes, unloaders and similar equipment.
- in the control circuit of magnetic motor starters to shut down motor-driven conveyors of other machinery.
- for indoor and corrosive locations.

Catalogue Number:

Number of contact	Symbol	Nameplate Marking	Cat.,No.	
			Dead-end (1 hub)	Through-feed (2 hub)
Momentary				
1NC		EMERGENCY STOP	PEM 01	PEM 01H
1NO-1NC		EMERGENCY STOP	PEM 11	PEM 11H
Push - Lock , Turn - Reset				
1NC		EMERGENCY STOP	PEM 01L	PEM 01LH
1NO-1NC		EMERGENCY STOP	PEM 11L	PEM 11LH



PEM11L

Dimensions: (in mm.)

