Ex-tech® SIGNALLING

Datasheet > Audible & visual signalling equipment

PB 135 Ex manual push button

SIL2 compliant as IEC 61508 & IEC 61511



The flameproof PB135 manual push button is ATEX / IECEx / UKEX certified for use in potentially explosive atmospheres. It can be used to activate alarms to alert personnel to potential dangers, help signal the need for immediate action in emergency situations and more. It is constructed from GRP. Optional SIL2 IEC61508 certification.

ATEX / IECEx / UKEX Certification: ATEX Zone 1 and Zone 2 Certified for group IIB +H2 gas / vapour and Zone 21 and Zone 22 compliant for dust / powder applications. SIL2 compliant as IEC 61508 & IEC 61511.

Application: Oil and gas, chemical, petrochemical, pharmaceutical, marine and offshore applications

Key features: Robust and highly reliable, this Ex manual push button is designed for corrosive environments and hazardous areas. Housing is moulded Glass-Reinforced Polyester (GRP), protected by a paint UV resistant. These ATEX / IECEx / UKEX compliant manual push buttons are compatible with PLC, ESD and DCS systems.

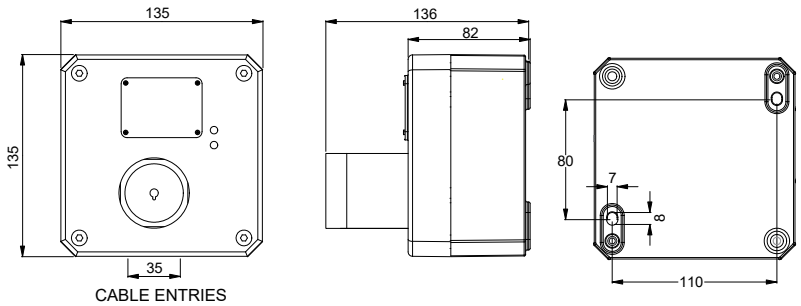
Options: There are two versions, a push button and push button with key Reset. The visualisation functions, line detection and lift flap protection are optional. A range of accessories is available to customise this ATEX / IECEx / UKEX manual push button. These include pipe mounting brackets, sunshades, tag and duty labels and other accessories.











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MATERIAL	• **Enclosure:** Glass-Reinforced Polyester (GRP)
COLOUR	• RED : RAL3001/3028 • YELLOW : RAL1018 • BLUE : RAL5005 • BLACK : RAL9005 • GREEN : RAL6032 • GREY : RAL7038 • ORANGE : RAL2010
INGRESS PROTECTION	• IP66/67
AMBIENT TEMPERATURE FOR OPERATION	• **T6** = - 40°C ~ + 70°C
CERTIFICATION	• **ExVeritas** 26ATEX2348X, IECEx EXV 26.0014X, 26UKEX2349X
EX CODE	• II 2 GD Ex db IIB+H2 T6 Gb • Ex tb IIIC T85°C Db
STANDARD	• EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-31:2024
ATEX AREA ZONE	• **Gas zone:** 1 & 2 **Dust zone:** 21 & 22
AMBIENT HUMIDITY*	• up to 95%
RATED IMPULSE WITHSTAND VOLTAGE	• 1kV following IEC 61000-4-5
CONTACT TYPE	• 1x C/O
COMMAND TYPE UNIT	• self reset or key reset
RATING	• AC 125/250 V (50/60Hz) = 11 A*** ; 30V DC = 6A***; 125 VDC = 0,3A***; 250 V DC = 0,6A***
MINIMUM VOLTAGE AND CURRENT	• DC 5V 10mA
SHORTS CIRCUIT PROTECTION	• 10 A gG
CABLES ENTRY	• 2 x M20, 1 x M25 + 1 x M20, 1 x 1/2” NPT + 1 x M20, 1 x 3/4” NPT + 1 x M20
TERMINAL	• From 22 to 14 AWG - from 0.50 mm² to 2.5 mm²
NET WEIGHT	• 2 Kg
LINE RESISTOR**	• 470 Ohms** • 1 watt
SIGNALLING LED**	• Green U= 24V DC I=10mA; Red U=24V DC I= 20mA

* = without runoff - ** = optional - *** resistive load - cable gland and blind plug not provided

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Product	Certification	Switches	Duty label	Tag label	Reset	LED indicator	Features	Connection	Entry position	Housing
PB	135	S	N	Y	K	L	FRD	A	T	RD

Product
- PB = PUSH BUTTON

Certification
- 135 = HAZARDOUS AREA
- 136 = NON-CERTIFIED

Switches
- S = 1

Duty label
- Y = YES (SEE LIST)
- N = NO

Tag label
- Y = YES
- N = NO

Reset
- S = SELF-RESET
- K = KEY RESET

LED indicator
- L = RED & GREEN
- R = RED
- G = GREEN
- N = NO LED

Features
- F = LIFT FLAP
- R = RESISTOR(S)
- D = DIODE(S)
- N = NO FEATURES

Connection
- A = 2 x M20 x 1.5
- B = 1 x M25 x 1.5 + 1 x M20 x 1.5
- C = 1 x 1/2” NPT + 1 x M20 x 1.5
- D = 1 x 3/4” NPT + 1 x M20 x 1.5

Additional adaptors can be supplied as well as blanking plugs and cable glands, see below.

Entry position
- T = TOP
- B = BOTTOM

Housing
- RD = RED
- YW = YELLOW
- BU = BLUE
- BL = BLACK
- GN = GREEN
- GY = GREY
- OJ = ORANGE
- OR = OTHER

CONDUIT ACCESSORIES	
M20 316L St. St Exd conduit plug	SPARE3060009
M25 St. St. conduit adaptor	SPARE3060105
½” NPT St. St. conduit adaptor	SPARE3060108
¾” NPT St. St. conduit adaptor	SPARE3060107
St. St Exd cable gland 7-12mm	SPARE3060108
St. St Exd cable gland 10-16mm	SPARE3060109

CONDUIT ACCESSORIES	
M20 NPB Exd conduit plug	SPARE3060008
M25 NPB conduit adaptor	SPARE3060003
½” NPT NPB conduit adaptor	SPARE3060001
¾” NPT NPB conduit adaptor	SPARE3060002
NPB Exd cable gland 7-12mm	SPARE3060019
NPB Exd cable gland 10-16mm	SPARE3060018

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