

Conventional Manual Call Points for Ex Areas

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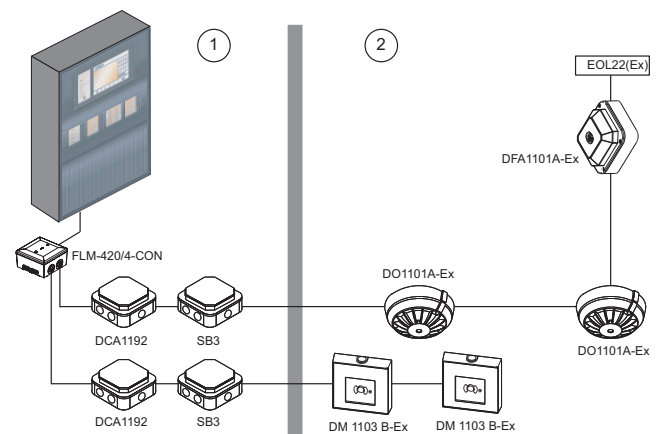
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The Conventional Manual Call Points for Ex Areas are used to manually activate the alarm in zones 1 and 2 at risk of explosion.

The K type call points are encapsulated, intrinsically safe call points and do not require any safety barriers. The DM 1103 B-Ex Manual Call Points for ex zones must be connected via a Safety Barrier SB 3 incl. Input/Output Module DCA1192 (see system overview).

System Overview



For DM 1103 B-Ex:

Pos.	Description
1	Non-ex area
2	Ex area zone 1 or 2

Functions

In the event of an alarm, the glass pane (2) is broken first, then the pushbutton (3) is pressed hard. Thus the switch triggers the alarm.

A locking mechanism holds the pressed manual call point.

The pushbutton can be reset with the reset lever. This does not reset the alarm on the fire panel.

Certifications and Approvals

Region	Certification	
Europe	CE	DM 1103
	CE	DKM2014
Germany	VdS	G 297060 DKM 2014/2-ex/-GLU
	VdS	G 295036 DM 1103 B-Ex
	PTB	97 ATEX 3197 DKM 2014/2 / DKM 2014/2-GLU
Europe	BASEE-FA	Ex 98E2304 DM 1103 B-Ex

Installation/Configuration Notes

- Manual call points must be illuminated sufficiently with daylight or another light source (including emergency lighting, if present).
- An installation height of 1400 mm ±200 mm, measured from the middle of the manual call point to the floor, must be maintained.
- Manual call points must be installed along escape and rescue routes (e.g. exits, passageways, stairwells).
- Further standards, guidelines and planning recommendations regarding the installation location etc., should also be taken into consideration (see Fire Detection manual).
- Regulations of local fire departments must be observed.

Installation/configuration notes in accordance with VdS/VDE

- The distance between manual call points should not exceed 100 m according to DIN 14675 or 80 m according to VdS.
- In high risk areas, manual call points should be installed at a distance of max. 40 m (VDE 0833 Part 2, Point 7.2.6).
- According to VdS, up to 10 manual call points can be connected to a primary line.

DKM 2014/2-ex Manual Call Point Type K

- For connection to the LSN, an NBK 100 LSN Fire Interface is required.
- Can be connected directly to the following conventional control panels:
 - BZ 1012
 - BZ 1060
 - UEZ 1000 GLT.
- With an NBK 100 LSN Fire Interface, can be connected to the following control panels:
 - BZ 500 LSN

- UEZ 1000 LSN
- UEZ 2000 LSN
- UGM 2020 LSN

DKM 2014/2-ex-UGM Manual Call Point Type K, for Connection to UGM Conventional

- Can be connected directly to the UGM-GLT Universal Danger Detection System

DM 1103 B-Ex manual call point for ex area

- For connection to the LSN, an NBK 100 LSN interface is required.
- For use in explosive areas of zones 1 and 2, a safety barrier and an input/output module are required, which must be mounted in front of the ex area.
- Cables can be inserted surface-mounted or flush-mounted

Parts Included

Type	Qty.	Components
DKM 2014/2-ex	1	Manual Call Point Type K, for ex areas, for surface mounting
DKM 2014/2-ex-UGM	1	Manual Call Point Type K, for Connection to UGM Conventional, for ex areas, for surface mounting
DM 1103 B-Ex	1	DM 1103 B-Ex manual call point, color red
	2	Key for DM1103B-Ex manual call point
		PG11 cable screws

Technical Specifications

DKM 2014/2-ex Manual Call Point Type K DKM 2014/2-ex-UGM Manual Call Point Type K, for Connection to UGM Conventional

Operating voltage	24 VDC
Switch contact	Type 366 (encapsulated), II 2 G EEx d IIC
Maximum contact load	5 A / 250 V AC 0,25 A / 250 V DC
Cable entry	<ul style="list-style-type: none"> • 1x M16 x 1.5 tightening diameter 4-8 mm, EEx e II • Blind plug: 1x M16 x1.5 EEx e II
Housing material	Polyester, glass fiber reinforced
Colors	Red, RAL 3001
Dimensions (W x H x D)	136 x 138 x 88 mm
Weight	Approx. 1800 g
Protection class as per EN 60529	IP 66
Permissible operating temperature	-25 °C to +40 °C
Ex classification	Eex emd IIC T6

Test certificate / PTB No.	97-37001
ATEX approval no.	PTB 97 ATEX 3197

DM 1103 B-Ex Manual Call Point

Operating voltage	16V DC to 28V DC
Cable duct	PG11 screws (2x)
Connection terminals	0.2 mm to 1.5 mm
Housing material	Plastic, PC
Color	Red, RAL 3000
Dimensions (W x H x D)	134.4 x 134.4 x 43.5 mm
Weight	Approx. 200 g
Protection class as per EN 60529	IP 54
Permissible operating temperature	-25 °C to +60 °C
Permissible storage temperature	-30 °C to +75 °C
Permissible relative humidity	≤100% at T≤34 °C
Ex classification	EEx ib IIC T4

Ordering Information

DKM 2014/2-ex Manual Call Point Type K

for ex area, surface-mounted, indirect alarm triggering, conventional technology
Order number **DKM 2014/2-ex**

Key for Fire Detector Type K

Order number **FMX-7743.0.0500**

DKM 2014/2-ex-UGM Manual Call Point Type K, for Connection to UGM Conventional

for ex area, surface-mounted, indirect alarm triggering
Order number **DKM 2014/2-ex-UGM**

Key for Fire Detector Type K

Order number **FMX-7743.0.0500**

DM 1103 B-Ex Manual Call Point

for zone 1 and 2 areas at risk of explosion, conventional technology
Order number **DM1103B-Ex**

SB3 Safety Barrier incl. DCA1192 Input/Output Module

limits the electrical energy between non-inherently safe and inherently safe circuits
Order number **SB3**

Accessories

FMC-SPGL-DEIL Spare Glasses

For manual call points of Series DM, DKM, SKM, FMC-120 and FMC-210.
1 unit = 5 spare glasses
Order number **FMC-SPGL-DEIL**

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