

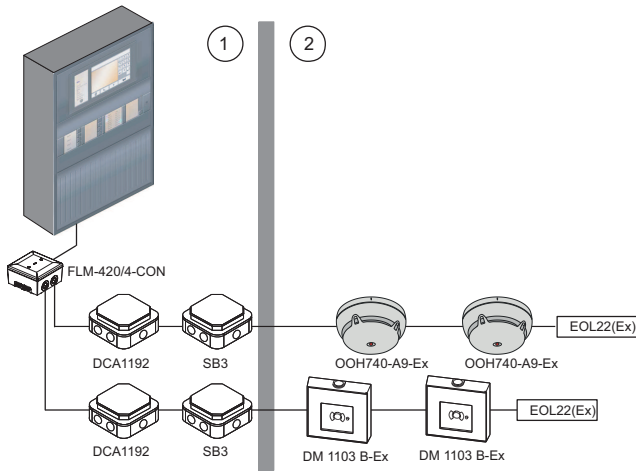
DM1103B-EX Manual call point ex area



- ▶ Indirect alarm trigger (type B); in line with EN54-11
- ▶ Robust, impact-resistant polycarbonate casing
- ▶ Surface- or flush-mounted cable feed
- ▶ Two-wire installation

The call points are used to manually activate the alarm in zones 1, 2, 21 and 22 at risk of explosion.

System overview



Pos. Description

- | Pos. | Description |
|------|---|
| 1 | Non-Ex area |
| 2 | Ex area: zone 0, 1 or 2 for OOH740-A9-Ex zone 1 or 2 for DM 1103 B-Ex |

Regulatory information

Region	Regulatory compliance/quality marks	
Europe	CPR	0786-CPR-20499 DM1103B-Ex

Region	Regulatory compliance/quality marks	
Germany	VdS	G 295036 DM1103B-EX
Europe	CE	DM1103B-EX

Installation/configuration notes

- When connecting to LSN, the FLM-420/4-CON-S interface module is required.
- Cables can be inserted surface-mounted or flush-mounted.
- Open the housing with the key to replace the glass. The pushbutton must be set back before closing the housing.
- Connection only via safety barrier SB 3 incl. input/output module DCA1192 (see system overview).
- For planning an intrinsically safe detector line for Ex areas, you have to consider:
 - the number *n* of devices connected to the SB3 safety barrier's detector line
 - the cable length / the SB3 safety barrier's detector line

The following inequation must be fulfilled to achieve an intrinsically safe detector line:

$$C_i \text{ (nF)}$$

resulting

$$C_0 > (n \times C_i) + (l \times C_D)$$

$$L_0 \text{ (SB3)} > L_i$$

resulting

$$L_0 > (n \times L_i) + (l \times L_c)$$

Abbreviation (unit)	Description
C ₀ (nF)	maximum external capacity
C _i (nF)	maximum internal capacity
C _c (nF)	cable capacitance
l (km)	length of entire detector line
L ₀ (mH)	maximum external inductivity
L _i (mH)	maximum internal inductivity
L _c (mH)	cable inductance
n	total number of detectors

- 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.

Parts included

Quantity	Component
1	DM 1103 B-Ex Manual Call Point, color red

Quantity	Component
1	Key for DM 1103 B-Ex Manual Call Point
2	PG11 cable screws
1	Sticker labeled "Avoid electrostatic charging"

Technical specifications

Operating voltage	16 V DC to 26 V DC
Cable duct	PG11 screws (2x)
Connection terminals	0.28 mm to 1.5 mm
Housing material	Plastic, PC
Color	Red, RAL 3000
Dimensions (W x H x D)	134.3 x 134.3 x 43.2 mm
Weight	Approx. 200 g
Protection class as per EN 60529	IP 54
Permissible operating temperature	-25 °C to +70 °C
Permissible storage temperature	-30 °C to +75 °C
Permissible relative humidity	≤95 % rel.
Ex classification	Ex ib IIC T4

Characteristics for intrinsical safety

Input voltage U _i (V)	≤ 28
Input current I _i (mA)	≤ 100
Input power P _i (mW)	≤ 700
Internal inductivity L _i (mH)	0
Internal capacity C _i (nF)	0

Ordering information

DM1103B-EX Manual call point ex area

for zone 1 and 2 areas at risk of explosion, conventional technology

Order number **DM1103B-EX | 4.998.112.084**

Accessories

SB3 Safety barrier

limits the electrical energy between non-inherently safe and inherently safe circuits

Order number **SB3 | 4.998.112.085**

FMC-SPGL-DEIL Spare glass

For manual call points of series DM, DKM, SKM, FMC-120 and FMC-210, 1 unit = 5 spare glasses

Order number **FMC-SPGL-DEIL | F.01U.025.845**

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