

Application Note

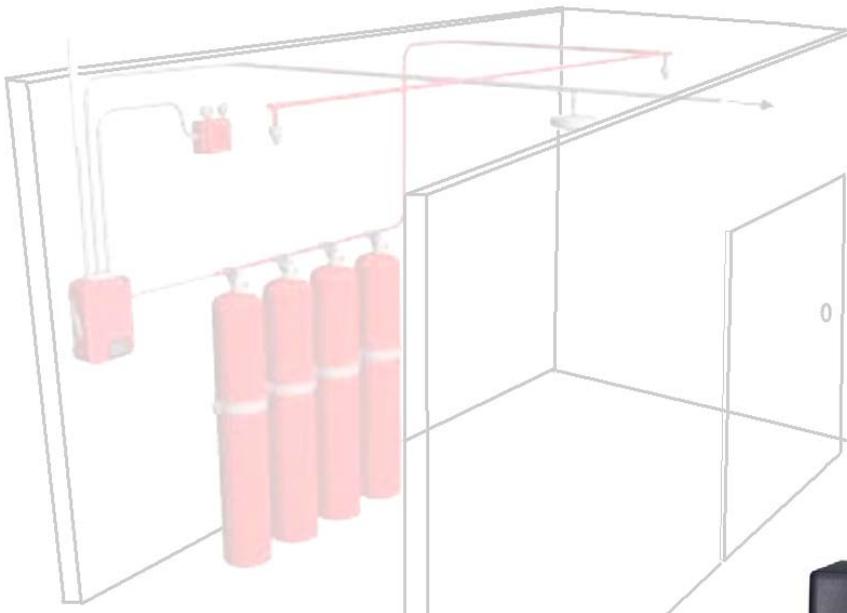


Making an EN12094 Compliant Gas Extinguishing Installation

Introduction

To be EN12094 compliant, not only do you need to have an EN12094-1 approved extinguishing control panel, but you will also need to have EN54 approved peripheral products. The panel, the detectors and manual call points, as well as the sounders are the obvious products that require EN54 approval. You may therefore believe that you know what to offer for an EN12094 compliant installation, but you would only be partly right. Did you know that you require an EN54 approved, **TYPE B manual call point** to be EN12094-3 compliant in your extinguishing installation?

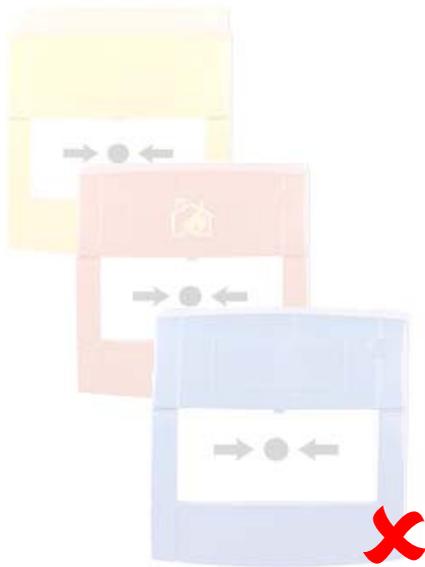
Fire Suppression System



Application Note



Manual Call Points and EN12094



DMN700 Series



DM860 Series

The normal DMN700 series (KAC) manual call points are EN54 Type-A call points. They cannot be used in an EN12094 compliant gas installation. To have an EN54 compliant installation, the following Type-B manual call points are available (to begin with):

- DM861-0 MCP YELLOW, Gas Manual Release, 100 ohm, English, Dutch & French
- DM861-4 MCP YELLOW, Gas Manual Release, 100 ohm, Spanish, Portuguese & Italian
- DM862-0 MCP BLUE, Gas Extinguishing Hold, 100 ohm, English, Dutch & French
- DM862-4 MCP BLUE, Gas Extinguishing Hold, 100 ohm, Spanish, Portuguese & Italian
- DM863-0 MCP WHITE, Gas Extinguishing Abort, 100 ohm, English, Dutch & French
- DM863-4 MCP WHITE, Gas Extinguishing Abort, 100 ohm, Spanish, Portuguese & Italian
- DM865 MCP RED, Manual Fire Alarm, 100 ohm

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The “-x” behind the call point code indicates the language group. These are defined as follows:

Language group (0 to 5) and languages					
0	1	2	3	4	5
English	Polish	Danish	Lithuanian	Italian	English
Dutch	Hungarian	Swedish	Estonian	Spanish	Romanian
French	Czech	Norwegian	Latvian	Portuguese	Greek
German	Slovak	Finnish	Russian		Luxemburgish

New languages will be introduced as the product is rolled out into all the regions.

Languages are required on these manual call points because the text on these call points are also regulated. To be EN12094 compliant, the manual call points have to display the following texts:

On the **YELLOW** manual call point:

MANUAL RELEASE, Gas Extinguishing System

On the **BLUE** manual call point:

EMERGENCY STOP, Gas Extinguishing System

On the **WHITE** manual call point:

ABORT, Gas Extinguishing System

The RED manual call points in the system are standard and simply show the standard EN54 “house on fire” function indicator.

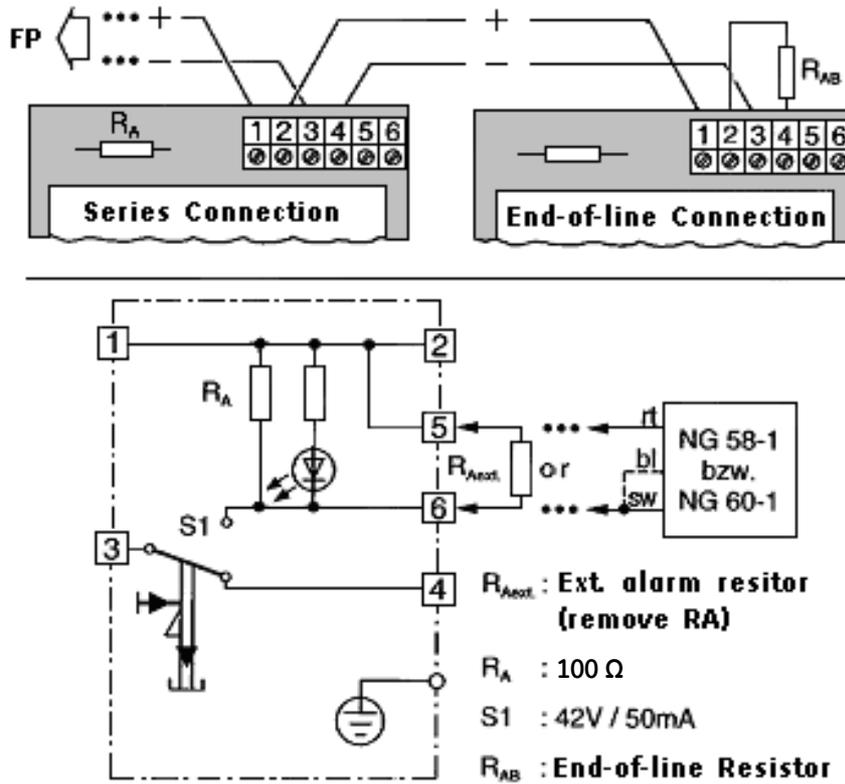
The DM860 series is approved in accordance with EN 54-11/B. It consists of a durable aluminium housing that proves to be better in comparison with plastic housings owing to its environmental stability. It is shatterproof, form stable and does not discolour due to sunlight.

The call points have an optical release indication by means of LED. The call point is activated with a single push button.

The front door has an opening angle of 180° and contains a replaceable windowpane. When the MCP is activated, the door cannot be closed. The call point can therefore not be left in the activated position accidentally during testing. The DM860 is available in the colours mentioned above.

For installation, it is not more complicated than any other call point. See below:

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Together with the panel, the manual call points and detectors determine the compliance of the installation.



For non-gas systems (non EN12094 compliant), the standard NK700/FEC400 and accompanying DMN700 manual call points are still perfectly usable.



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Upcoming new products

Audio visual indications

Sounders and bells need to be CPD approved, but beacons and warning signs do not require any approval today.

We will be able to offer the following sounders (CPD approved) and sounder-beacons:

AS363	Fire sounder, multi tone, shallow base
AS363W	Fire sounder, multi tone, shallow base, white
AS363M	Fire sounder, multi tone, shallow base, mains powered
AS364	Fire sounder, multi tone, deep base
AS364W	Fire sounder, multi tone, deep base, white
AS364M	Fire sounder, multi tone, deep base, mains powered
AS366	Sounder-beacon, multi tone, shallow base
AS366W	Sounder-beacon, multi tone, shallow base, white
AS367	Sounder-beacon, multi tone, deep base
AS367W	Sounder-beacon, multi tone, deep base, white

“TWIST AND CLICK” FIRE SOUNDERS FOR FASTER INSTALLATION

The new AS360 series **alarm sounders** from GE Security allows faster installation and maintenance thanks to an innovative mounting base. Dispensing with the need for locking screws, these sounders and sounder beacons use TimeSaver™ bases from the 630 series detectors. Heads are simply locked onto the base with a “twist and click” action, allowing fitting or removal at any time because the base is the only component that needs to be wired. As the cabling requirement is reduced, commissioning time and costs are naturally reduced as well.

Although tone and volume settings can be preset, the AS360 series also allows individual adjustment of the head settings for installations where precise local control is needed. Optimised for use in fire systems, the range provides 32 distinct alarm tones, with outputs up to 110 dBA at 1 metre depending on the tone. Loops of sounders are automatically synchronised for maximum audibility in the event of an alarm.

A combined sounder and beacon is offered for applications requiring visual as well as audible warnings. To ensure all-round visibility, the entire sounder head is transparent.

As well as the standard shallow base, the AS360 series units can also be supplied with a deep base for installations in which cable conduit is used. Deep bases are ingress protected to IP65, making them ideal for external as well as internal use.

Available in either red or white, The AS360 series units draw currents from 6 to 35 mA depending on the tone set, and are all approved to EN54 pt. 3



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We will be able to offer base sounders (CPD approved):

- AS368 Base-sounder, multi tone
- AS368W Base-sounder, multi tone, white

The AS360 Series **base sounder** is a low profile unit designed to be installed beneath a variety of smoke and heat detectors in existing fire alarm systems. It enables detection and alarm at the same point, eliminating the need to have separate sounders in the circuit. Consequently, it also reduces wiring and installation costs.

With a sound output of 95 dB, 32 distinct alarm tones and volume control, the product is ideal for areas with low ambient noise where it is desirable to have a large number of low power sounders.

We will be able to offer beacons only:

- FA350 Led Beacon, Red shallow base, Red lens
- FA350WY Led Beacon, White shallow base, Yellow lens
- FA350Y Led Beacon, Red shallow base, Yellow lens
- FA350WRC Led Beacon, White shallow base, Red flash, Clear lens
- FA355 Led Beacon, Red deep base, Red lens
- FA355WY Led Beacon, White deep base, Yellow lens
- FA355WRC Led Beacon, White deep base, Red flash, Clear lens

- FA380 Rotating beacon, 24V, 48W, DC, Red
- FA380M Rotating beacon, 230V, 60W, AC, Red
- FA380MY Rotating beacon, 230V, 60W, AC, Yellow
- FA380Y Rotating beacon, 24V, 48W, DC, Yellow

BEACONS COVER ALL BASES

We are also able to offer an extensive range of **general-purpose beacons**, for fire applications. This includes an LED beacon optimised for fire applications, as well as a xenon beacon available in DC and AC variants. These products utilise a full faced, translucent case rather than a separate add on beacon, giving a much larger lens area and resulting in a greater light spread. They are available in deep or shallow base variants, the latter being weatherproof to IP65, and come with a choice of red, amber, and clear lenses.



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Warning Indicators

Here we are able to offer the following:

GRP25-01	Acoustic/Optical Panel, 12/24V for internal use, Dutch
GRP25-02	Acoustic/Optical Panel, 12/24V for internal use, French
GRP25-03	Acoustic/Optical Panel, 12/24V for internal use, English
GRP25-09	Acoustic/Optical Panel, 12/24V for internal use, Spanish
GRP25-10	Acoustic/Optical Panel, 12/24V for internal use, Italian
GRP25-21	Acoustic/Optical Panel, 12/24V for internal use, Portuguese

As well as the old:

KR24	Extinguishing agent release sign (Spanish)
KR24B	Extinguishing agent release sign without text

More country variants will be introduced as the FEC403EN is rolled out into the rest of Europe.

Each of the GRP-series panels will be supplied with 3 easily interchangeable inserts in the country language indicating the 3 required messages for an extinguishing installation. These will be:

Insert 1:	Fire Alarm
Insert 2:	Evacuate Immediately
Insert 3:	Extinguishing in Progress

The GRP-series optical panels are low current consumption devices using LED technology, allowing more units to be connected to the FEC403EN than the old KR24 series optical/acoustic indicators. The GRP-series support an internal buzzer with and sound output of 93 dBA to attract additional attention if required. Easy installation and maintenance with a housing in auto-extinguishing plastic material and the possibly to flush mount add additional flexibility to the new line.

