



# MXBASE AND MX916/926/936 FIRE DEVICES INSTALLATION INSTRUCTIONS



29011151R001





# Contents

Cautions, warnings, and regulatory information.....	5
Introduction.....	6
MXBASE installation.....	7
Device settings.....	9



## Cautions, warnings, and regulatory information

**READ AND SAVE THESE INSTRUCTIONS** Follow the instructions in this installation manual. These instructions must be followed to avoid damage to this product and associated equipment. Product operation and reliability depend upon proper installation.



**DO NOT INSTALL ANY PRODUCT THAT APPEARS DAMAGED** Upon unpacking your Tyco product, inspect the contents of the carton for shipping damage. If damage is apparent, immediately file a claim with the carrier and notify an authorized product supplier.



**ELECTRICAL HAZARD** Disconnect electrical field power when making any internal adjustments or repairs. All repairs should be performed by a representative or an authorized agent of your local Tyco product supplier.



**STATIC HAZARD** Static electricity can damage components. Handle as follows:

- Ground yourself before opening or installing components.
- Prior to installation, keep components wrapped in anti-static material at all times.

# Introduction

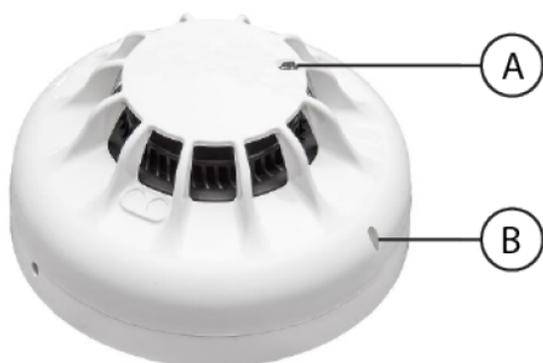
The Photo-Heat, Photo, and Heat detectors, use heat, and smoke detection methods to detect fires, see Figure 1 and Figure 2. Operate these detectors with HSM3105 MX module. See Table 1 for a description of each detector type.

- ① **Note:** Refer to document 29011152: MX916/926/936 PRODUCT APPLICATION AND DESIGN DOCUMENT ENG for details on detector features, placement, testing, and maintenance.

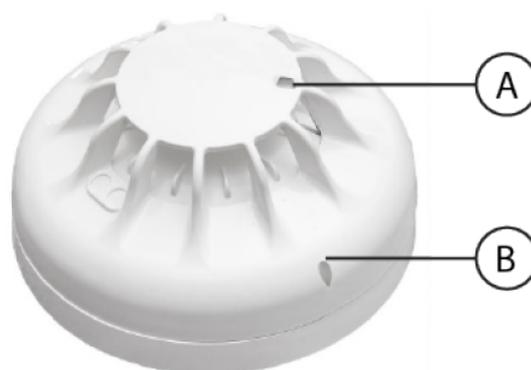
**Table 1: Detector types**

Part Number	Detector name	Detector description
88030899	MX 916 Photo-Heat Detector	The combined optical and heat multi-sensor can detect a wide range of fires from smoldering to flaming.
88030900	MX926 Photo Detector	The optical sensor is used in environments where any potential fire is slow-burning.
88030901	MX936 Heat Detector	The heat sensor operates in fixed temperatures and rate-of-rise modes with a number of approved sensitivities.

**Figure 1: Heat detector**



**Figure 2: Photo, Photo-Heat, or Photo-Heat-CO**



**Table 2: Detector images description**

Callout	Description
A	Status indicator, red LED
B	Unlock aperture and position where test magnet should be held.

See Table 3 for standard detector bases.

**Table 3: Detector bases**

Base	Part number	Name	Detector base description
MXBASE	88030903	4 in. Detector Base	Use when short circuit isolation is not required.

# MXBASE installation

Install the MXBASE as shown in the wiring diagram below. As these are life-safety devices, it is recommended to use the loop configuration to wire these devices to the HSM3105 module as shown in Figure 3.

**Figure 3: Addressable base wiring diagram**

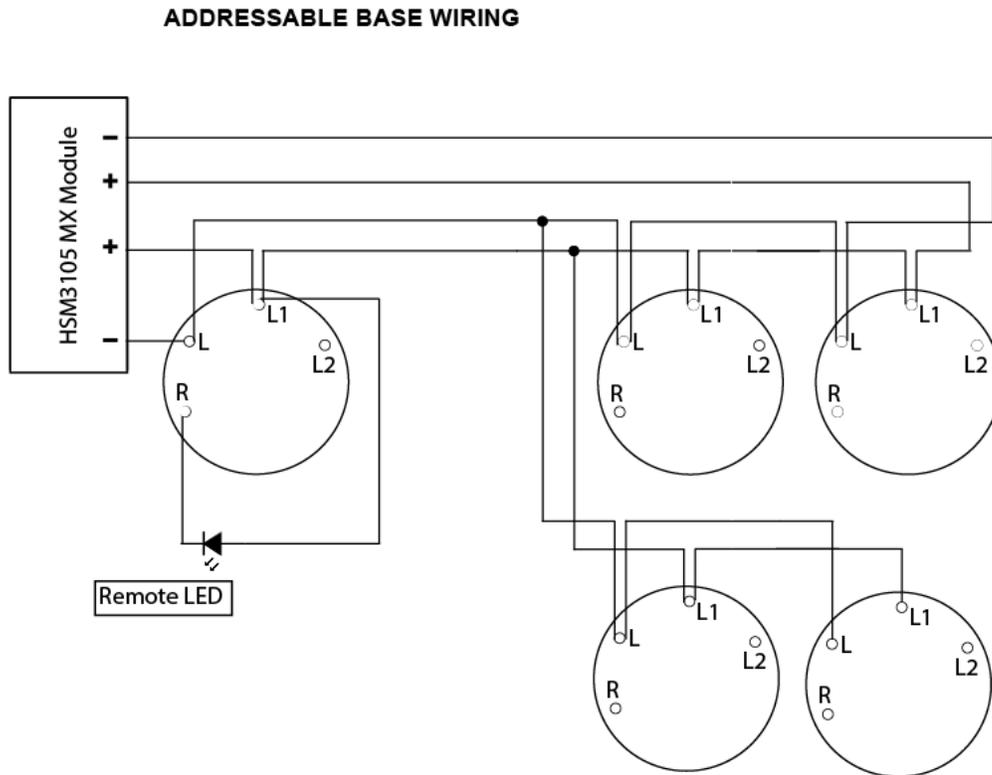
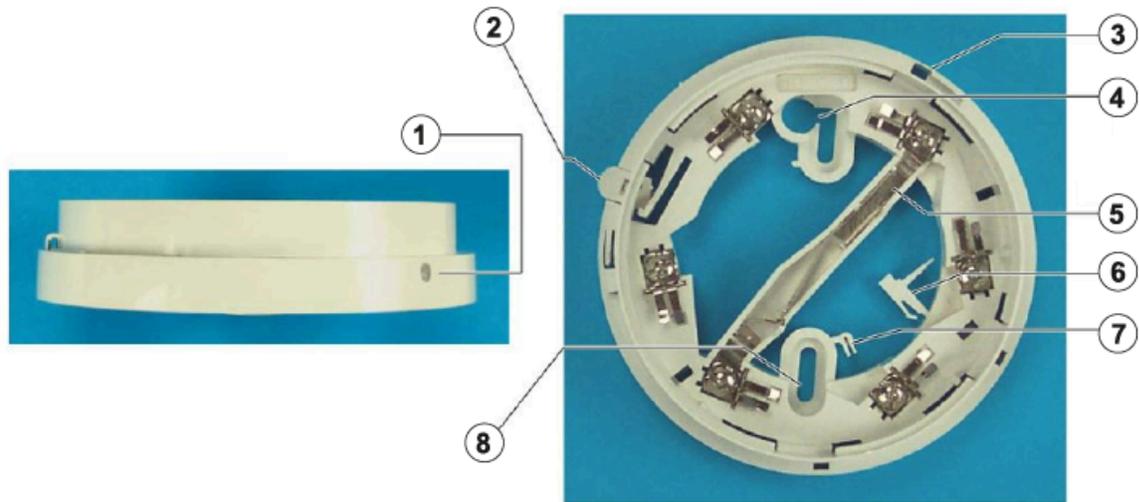


Figure 4 and Table 4 shows the description for the MXBASE.

**Figure 4: MXBASE**



**Table 4: Detector images description**

Callout	Description	Callout	Description
1	LED aperture plug fits here	5	Continuity Spring Loaded Contact (4B-C Only)
2	Temporary park plunger	6	Detector locking pin, as supplied
3	Detector locking pin fits here	7	LED aperture plug, as supplied
4	Fixing screw slot, enlarged	8	Fixing screw slot

### Detector installation

To install the Photo-Heat, Photo, or Heat detectors by docking them to the MXBASE, use the following steps:

1. Identify the raised rib alignment markers on the edges of the detector and base.
2. With the detector marker positioned approximately 15 mm or 15 degrees counter-clockwise from the base marker, attach the detector to the base.
3. Twist the detector clockwise to align the markers and lock the detector in place.
4. Insert the detector locking pin into its hole on the side of the base, see Figure 3. Use the locking pin to prevent the detector from rotating out of the base.

► **Important:** Remove the dust cover once the installation is complete.

ⓘ **Note:**

- a. To release the locking pin, depress its spring tab by using a suitable tool that would fit inside the access hole of the decetor cover, for example a screwdriver.
- b. Photo-Heat detectors will not generate an alarm on heat alone.
- c. Do not use smoke detectors with detector guards unless the combination has been evaluated and found suitable for that purpose.

# Device settings

Refer to the 29011148: HSM3105 Expansion Module Installation Guide & MX alarm control panel instruction manual for enrollment information.

**Note:** Note: The detectors should be wired into the MX loop before the start of the auto-enroll process.

To change a default device setting, select **DEVICE SETTINGS** from the MX panel menu and configure one or more setting options in the following definition list:

- **LED blinking during poll:** To turn off the LED blink during polling, select **LED OFF**. The default setting is **LED ON**. This option is available in MX916, MX926, and MX936.
- **Smoke Sensitivity:** Select the smoke sensing sensitivity from **Low**, **Medium** or **High**. The default setting is **Medium**. This option is available in MX916 and MX926 only.

The following features are hardcoded and not available for installer:

- **Threshold Compensation:** Hardcoded option - Enabled in the MX alarm control panel. This option is applicable to MX916 and MX926 only.
- **Supervision:** Hardcoded option: Enabled in the MX alarm control panel. This option is applicable to MX916, MX926, and MX936.

