850 Series

Generation 6 *MX* 814RB Relay Base

VIGILANT

Features

// *MX* Loop powered

// Dual changeover relay contacts

// Compatible with 800, 814, and 850 series detectors

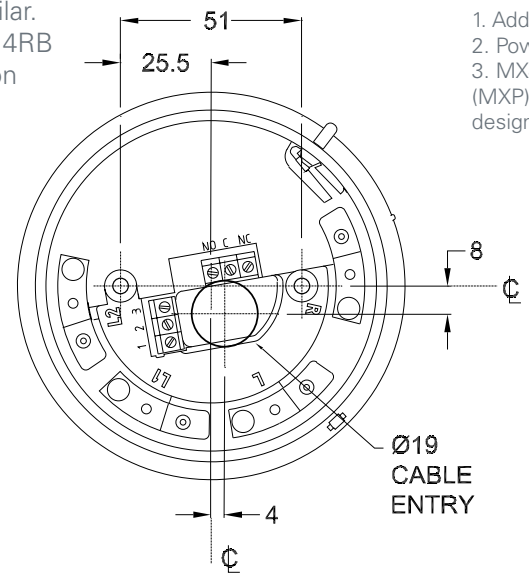
Description

The 814RB *MX* Addressable Relay Base provides two sets of changeover volt-free relay contacts capable of switching 1A (resistive) @30Vdc. The relay function is controlled by the Tyco *MX* Control and Indicating Equipment (CIE) via the addressable detector fitted to the 814RB. The 814RB may be mounted to the ceiling, or plugged into a 4B Universal base or 4B-I Isolator base or 4B-C Continuity base.

Fixing

The 814RB should be positioned as per the site plan, fixed to a suitable flat surface strong enough to support the weight of the base and detector. Two screws 4mm diameter are required (not supplied) for fixing the base. Two sets of knockouts (1 knockout each side, 2 places) must be removed using a small screwdriver or similar.

When fixing the 814RB directly to a junction box or ceiling, the clear cover (supplied) must be positioned between the base and the junction box/ceiling. Alternatively, the 814RB may be plugged into a 4B, 4B-I, or 4B-C base.

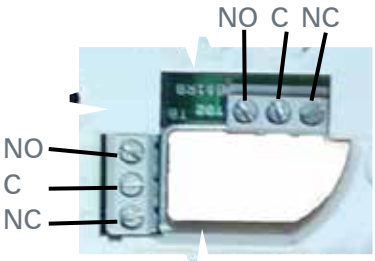


Specifications

Loop Voltage [1]	20V to 40Vdc
Quiescent Current [2]	50µA
Relay	2 changeover volt-free contacts
Switching Current	1A @ 30Vdc (resistive)
Remote Indicator	Tyco E500 Mk2
Max. 814RB per loop [3]	250/200
Dimensions (H x Dia)	37 x 108mm
Colour	White
Weight	153g
Ambient Temperature	–10°C to +55°C
Storage Temperature	–25°C to +70°C
Relative Humidity	10% to 95% (non cond.)
Indoor Applications Only	
Part Numbers	814RB

1. Addressable loop voltage provided by *MX* CIE.
2. Power-up 450µA for less than 1 sec.
3. MX4428/*MX1*, 4100MXP. Refer to appropriate manual: LT0273 (MXP), LT0313 (4100MXP), LT0360 (*MX1*-NZ), LT0441 (*MX1*-Au) for design specifications.

814RB Relay Terminals



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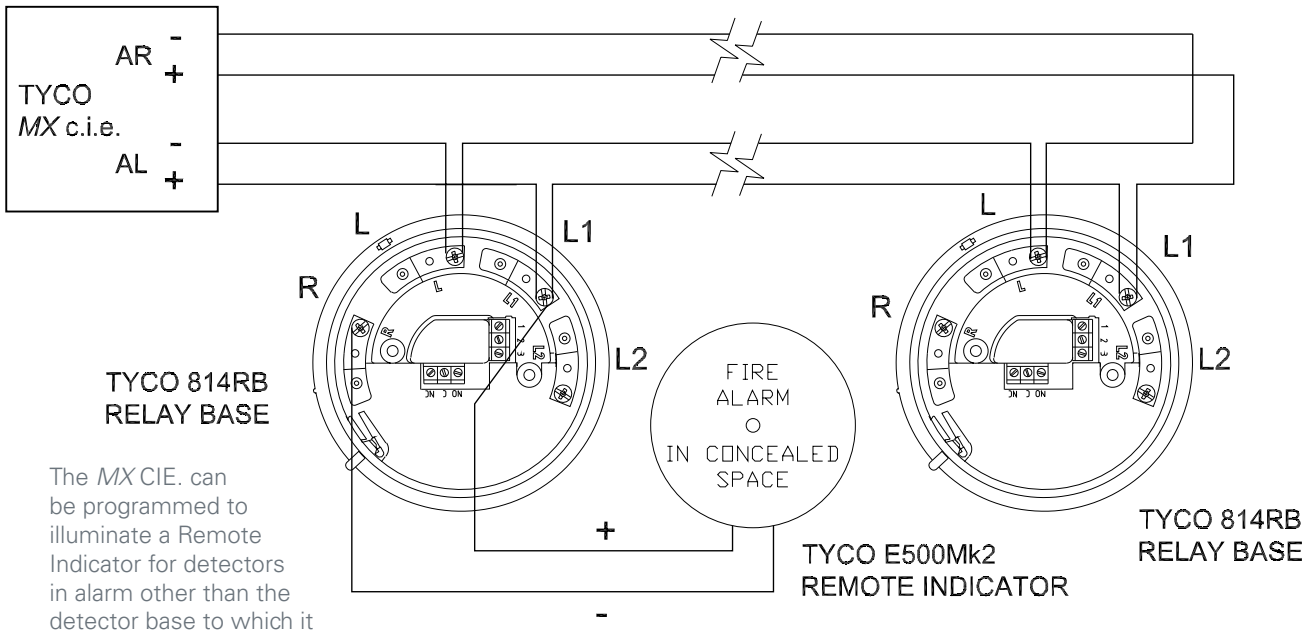
Wiring

Loop wiring is connected to base terminals L (-ve) and L1 (+ve). A remote indicator may be fitted between loop positive L1 (+ve) and terminal R (-ve). A maximum of two 1.5mm^2 or one 2.5mm^2 cables may be connected at any one terminal, unless suitable fork or eyelet crimp terminals are used. Terminal L2 must be left unconnected.

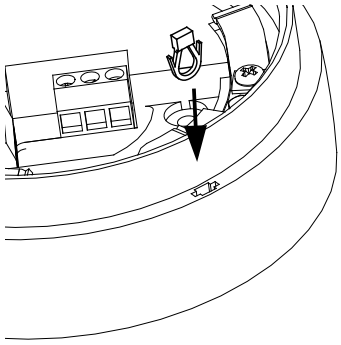


The *MX* CIE. can be programmed to illuminate a Remote Indicator for detectors in alarm other than the detector base to which it is connected.

814RB Relay Base Wiring—Addressable Systems

Locking Key

The *MX* range of bases feature a detector lock facility. A key inserted into a base as shown will lock a detector in position. A small screwdriver can be used to depress the locking key through a hole in the detector cover, allowing the locked detector to be removed. The locking key part number is 517.050.005, and is available in packs of 100.



Locking Key

Maintenance And Service

The Tyco *MX* addressable system should be maintained in accordance with AS 1851 or NZS 4512. The Tyco X300 Smoke Tester, X461 Heat Tester and CO test gas (part no. 517.001.262) may be used for testing the detector *in-situ*. Rotating the detector anticlockwise past an indent to the park position disconnects the detector from the circuit whilst still retaining it in the base, allowing loop testing etc. Depressing the plunger at the side of the base allows the detector to be rotated back into its operating position.

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