



### **RediPANEL Type 800EM/EP Push Button Modules, Series A & B**

#### **Release Contents**

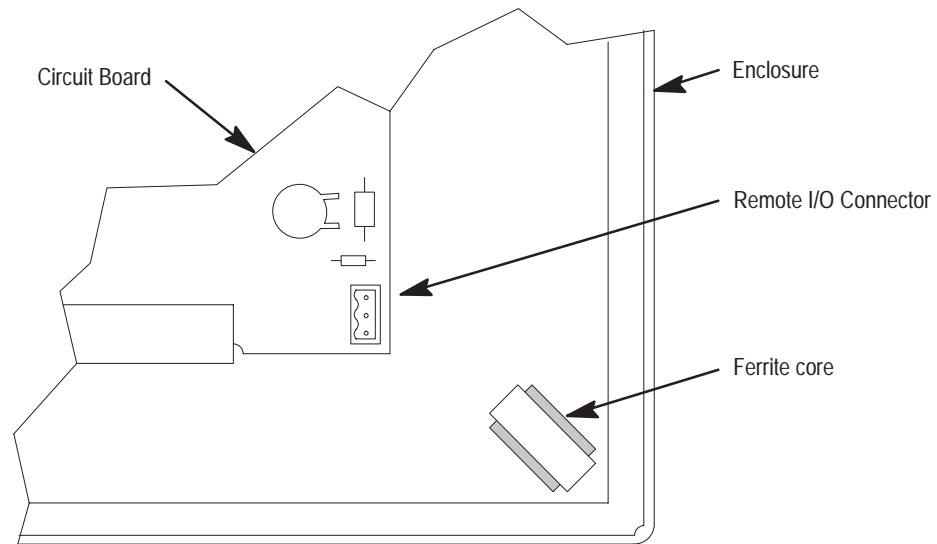
This Release Note supports the introduction of Two new series of Type 800EM and 800EP RediPANEL Push Button Modules. Topics covered include:

- Introduction of the 24V DC Series A version with CE certification
- Introduction of the 120/240V AC Series B version with CE certification, including Low Voltage Directive (LVD)
- Guidelines for routing communication cable
- Guidelines for DC wiring
- Instructions for installing jumper wire (Catalog Number 2705-E3)

#### **Remote I/O Cabling Requirements**

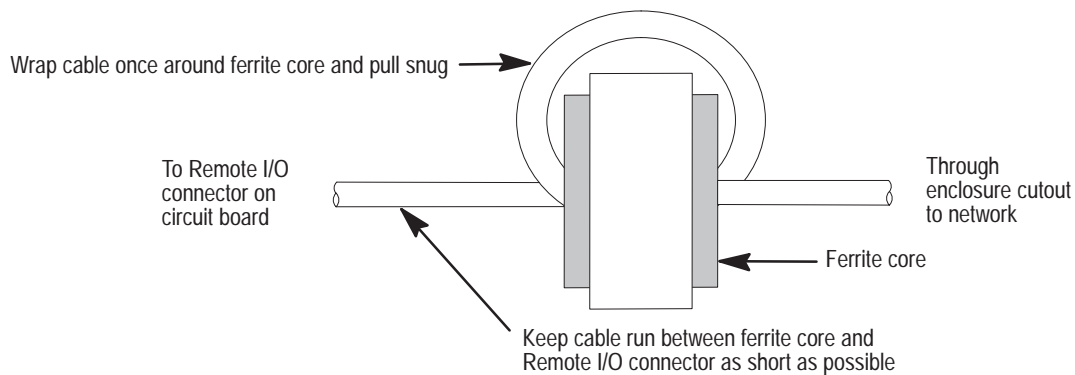
Type 800EM/EP RediPANEL Push Button Modules are designed to control RF noise. An important part of that design is a ferrite core located at the lower right corner of each enclosure.

On 32-button back plate mounted units the ferrite core is located on the back plate as shown in the illustration that follows. The core is located on the side wall of all panel mounted and 16-button units. In either case, it can be found adjacent to the Remote I/O port on the exposed internal circuit board.



Note: 32-button back plate mounted version shown. Ferrite core is mounted on the enclosure wall on other units.

During installation, route the Remote I/O communications cable through the ferrite core once, then loop it over and through the core once again as shown in the following illustration. Make the loop snug, and keep the length of cable between the core and the Remote I/O connector on the circuit board as short as possible.



## DC Voltage Requirements (DC Units Only)

Long wiring runs can cause significant voltage drop in DC circuits. DC-powered RediPANEL Push Button Modules are designed for a typical supply voltage of 24V DC *measured at the module*, but can operate within range of 18–30V DC.



**ATTENTION:** Failure to provide adequate supply voltage can lead to equipment failure. Because long wiring runs can cause significant voltage drop in DC circuits, always measure supply voltage *at the module* to be certain it is above the minimum 18V DC.

## Jumper Wire 2705-E3

The RediPANEL Jumper Wire (Catalog Number 2705-E3) is designed for use on custom RediPANEL modules with 800E operators during installation of 3-position selector switches.

### Applicability

Instructions for wiring 3-position illuminated switches appear in Appendix B of *Bulletin 2705 RediPANEL Push Button Modules User Manual* (Publication 2705-800). Those instructions describe an installation in which the required additional contact cartridge is taken from the right adjacent pushbutton.

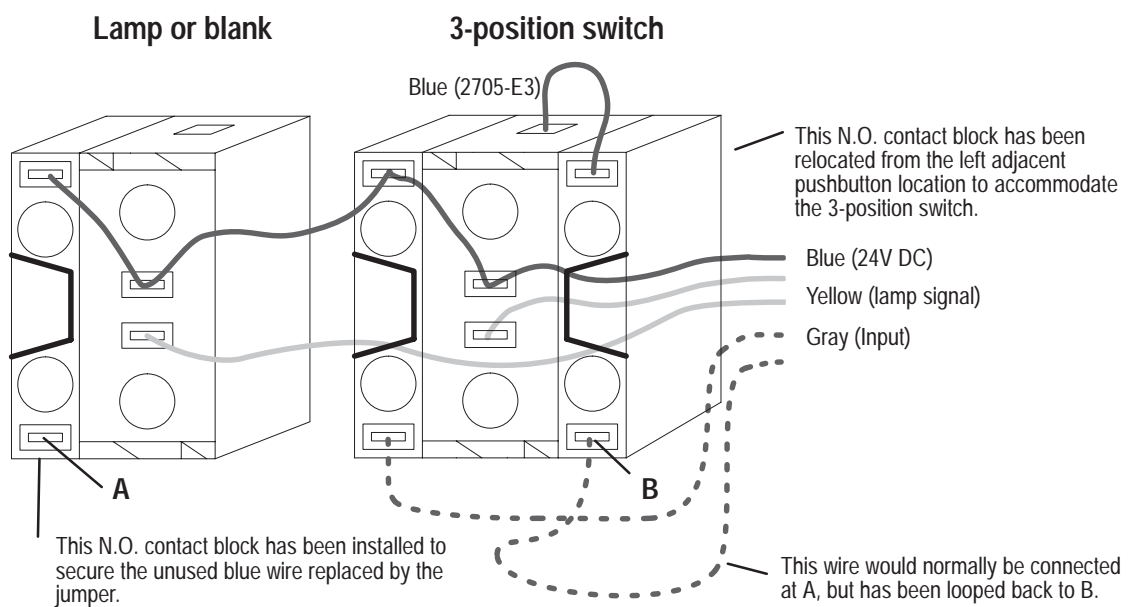
In some situations you may find it necessary to take the required additional contact cartridge from the left adjacent pushbutton. In such cases you will need to use a jumper wire (Catalog Number 2705-E3) to provide power for the relocated N.O. contact block because the existing power supply wire will not reach.



**ATTENTION:** Do not apply power to the RediPANEL module until all electrical connections, including communications lines, have been connected.

### Installation

Refer to the illustration that follows to determine correct wiring for 3-position switches powered with a contact cartridge originally located to its left.



# Allen-Bradley Parts

## DECLARATION OF CONFORMITY

This Declaration of Conformity is suitable to the European Standard EN 45014, "General criteria for supplier's declaration of conformity." The basis for the criteria has been found in international documentation, particularly in: ISO/IEC Guide 22, 1982, "Information on manufacturer's declaration of conformity with standards or other technical specifications."

Allen-Bradley liability under this declaration is limited to that set forth in the current Allen-Bradley publication 6500, Terms and Conditions of Sale as well as similar publications from Allen-Bradley affiliates doing business in the European Community.

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**Applied Council Directive(s):**

**89/336/EEC Electromagnetic Compatibility Directive (EMC), and amending directives 91/263/EEC, 92/31/EEC, 93/68/EEC**

**73/23/EEC Low Voltage Directive, and amending directive 93/68/EEC**

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We,

**Manufacturer: Allen-Bradley Company, Inc.**  
**1201 South 2nd Street**  
**Milwaukee, WI 53204**  
**U.S.A.**

**Authorized Representative in the Community (and location of Responsible Person):**

**Allen-Bradley, subsidiary of Rockwell International GmbH**  
**Düsseldorf Str. 15**  
**D-42781 Haan Germany**

declare under our sole responsibility that the product(s):

**RediPANEL type 800E Pushbutton Module**

**2705-EM11J1, 2705-EM11J1L, 2705-EM11JE1, 2705-EM11JE1L**  
**2705-EM21J1, 2705-EM21J1L, 2705-EM21JE1, 2705-EM21JE1L**  
**2705-EP11S1, 2705-EP11S1L, 2705-EP11SE1, 2705-EP11SE1L**  
**2705-EP21S1, 2705-EP21S1L, 2705-EP21SE1, 2705-EP21SE1L**  
**(All catalog numbers are series B or higher.)**

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to which this declaration relates is in conformity with the relevant provisions of the following standard(s) or other normative document(s):

**EN 50082-2:1995 EMC Generic Immunity Standard - Industrial**

**EN 50081-2:1993 EMC Generic Emission Standard - Industrial**

**Pertinent LVD sections of:**

**EN61131-2: 1992 Programmable Controllers - Equipment Requirements and Tests**

**Pertinent LVD sections of:**

**EN60950-1: 1992 Information Technology Equipment**

**Technical Information is maintained at:**

**Allen-Bradley Company, Inc.**

**1201 South Second Street**

**Milwaukee, Wisconsin 53204 U.S.A**

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**Year of CE Marking (low Voltage Directive): 1997**

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We, the undersigned, hereby declare that the product(s) specified above conforms to the listed directive(s) and standard(s).

**Manufacturer**

Signature:





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Full Name: Robert Gardiner  
 Position: Manager, Quality Engineering  
 Date: Jan. 23, 1997

**Authorized Representative in the Community through its Responsible Person**

Signature: i.V.




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Full Name: Viktor Schiffer  
 Position: Engineering Manager  
 Date: Jan. 27, 1997

## DECLARATION OF CONFORMITY

This Declaration of Conformity is suitable to the European Standard EN 45014, "General criteria for supplier's declaration of conformity." The basis for the criteria has been found in international documentation, particularly in: ISO/IEC Guide 22, 1982, "Information on manufacturer's declaration of conformity with standards or other technical specifications."

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**Applied Council Directive(s): 89/336/EEC Electromagnetic Compatibility Directive (EMC), and amending directives 91/263/EEC, 92/31/EEC, 93/68/EEC**

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**Allen-Bradley, subsidiary of Rockwell International GmbH**  
 Düsselberger Str. 15  
 D-42781 Haan Germany

declare under our sole responsibility that the product(s):

**RediPANEL type 800E Pushbutton Module**  
 2705-EM11J2L, 2705-EM11JE2L, 2705-EM21J2L, 2705-EM21JE2L  
 2705-EP11S2L, 2705-EP11SE2L, 2705-EP21S2L, 2705-EP21SE2L  
 (All catalog numbers are series A or higher.)

to which this declaration relates is in conformity with the relevant provisions of the following standard(s) or other normative document(s):

**EN 50082-2:1995 EMC Generic Immunity Standard - Industrial**  
**EN 50081-2:1993 EMC Generic Emission Standard - Industrial**

**Technical Information is maintained at:**

**Allen-Bradley Company, Inc.**  
 1201 South Second Street  
 Milwaukee, Wisconsin 53204 U.S.A

**Year of CE Marking (low Voltage Directive):**

We, the undersigned, hereby declare that the product(s) specified above conforms to the listed directive(s) and standard(s).

**Manufacturer**

Signature:

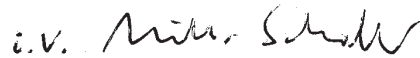


Full Name: Robert Gardiner  
 Position: Manager, Quality Engineering

Date: 14 JUNE 96

**Authorized Representative in the Community through its Responsible Person**

Signature:



Full Name: Viktor Schiffer  
 Position: Engineering Manager

Date: 24 June 96

## European Union Directive Compliance

If this product is installed within the European Union or EFTA regions, the following regulations apply.

This apparatus is tested to meet Council Directive 89/336 Electromagnetic Compatibility (EMC) Standards:

- EN50081-2 Class A (Industrial) Emissions
- EN50082-2 Class A (Industrial) Immunity

According to these Standards, the factor which determines, for EMC purposes, whether an apparatus is deemed to be “Industrial” or “Residential, commercial and light industrial”, is given in Clause 1 of EN50081-2 as follows:

Apparatus covered by this standard is not intended for connection to a public mains network but is intended to be connected to a power network supplied from a high- or medium-voltage transformer dedicated for the supply of an installation feeding a manufacturing or similar plant.

The product described in this Release Note is intended for use solely in an industrial environment as defined above. When installed in Europe, any other application is in contravention of European Union Directives, and a breach of those laws.

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## Notes

Allen-Bradley Parts



Allen-Bradley, a Rockwell Automation Business, has been helping its customers improve productivity and quality for more than 90 years. We design, manufacture and support a broad range of automation products worldwide. They include logic processors, power and motion control devices, operator interfaces, sensors and a variety of software. Rockwell is one of the worlds leading technology companies.

### Worldwide representation.



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