Overview

The Protec Clean Contact Interface (CCO) is a loop powered output device providing a set of volt free changover contacts. The contacts may be used to connect Protec addressable loops to any form of ancillary equipment.

Technical Specification

Loop protocol	Protec Algo-tec™ 6000
Loop isolator fitted	Yes, on board
Loop voltage range	16 to 28V peak loop
Loop quiescent current (24V peak loop)	0.6mA
Loop alarm current (maximum)	19mA
Clean contact output details	Single pole changeover rated for 1A maximum at 24V DC
Indications	On-board red indicating LED
Environmental operational limits	0 to 50 degrees C (95% RH no condensation or icing)
Loop isolator specification	Please consult Protec DEL2110 for details

Installation

1. Ensure tests are carried out on the cable using a 500V DC insulation tester (Megger™). The readings between each cable core, and each core and earth (screen) should be greater than 10MΩ. **Ensure that all cabling is completely discharged before connecting to the 6000/CCO.**

2. Connect the cabling as follows;
   The incoming series 6000 loop must be connected to the terminals marked LOOP+ and LOOP-
   The outgoing series 6000 loop must be connected to the remaining LOOP+ and LOOP- terminals
   All screen wiring must be securely terminated to a local earth point within the back-box.

3. To comply with the impact, shock and ESD requirements of EN54 parts 17 and 18, the interface must be mounted securely on a DIN rail which in turn is securely fastened using suitable metal screws or metal nuts and bolts within a plastic or metal enclosure whose dimensions are at least 100mm x 90mm x 50mm and which has a minimum ingress protection rating of IP20. A minimum wall thickness of 1.0 mm for metal enclosures and 1.5 mm for plastic enclosures is required.

Commissioning

1. Each 6000/CCO has a unique serial number which will be used as part of the commissioning of the fire alarm system. It is necessary to remove one of the ‘ peelable ’ bar code labels present on the product and place it in the commissioning booklet supplied with each Protec addressable control panel. The bar code sticker should be placed at the relevant loop and address position intended for the 6000/CCO. It is important that serial numbers are not mixed otherwise the addressing of the 6000/CCO will be incorrect when commissioned.

2. Commission the device onto the system as detailed in the installation and commissioning manual for the fire alarm panel being used.

6000/CCO Certification Details

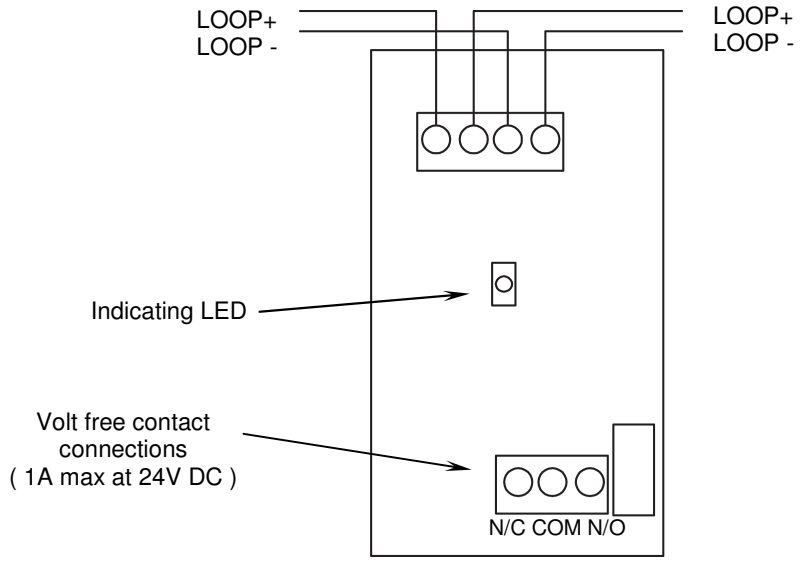
CE
0832

Protec Fire Detection plc, Nelson, Lancs
11
0832-CPD-1162

EN54 – 17 : 2005 **Short Circuit Isolator** **6000/CCO** **Technical Data included in this datasheet**	**EN54 – 18 : 2005** **Input / Output Devices** **6000/CCO** **Technical Data included in this datasheet**

PCB Details (issue C and later). For issue A and B please refer to Protec PID221

Figure 1. 6000/CCO PCB details



6000/CCO Enclosure Mounting Details

Figure 2. Details of mounting the DIN rail 6000/CCO into an enclosure.