Installation and User Manual

Remote Control Module for Extractors with a DoL Motor Starter

Installation Instructions

Un-switched N L

NC2
COM2
NO2
NC1
COM1
NO1

Pairing button and indicator
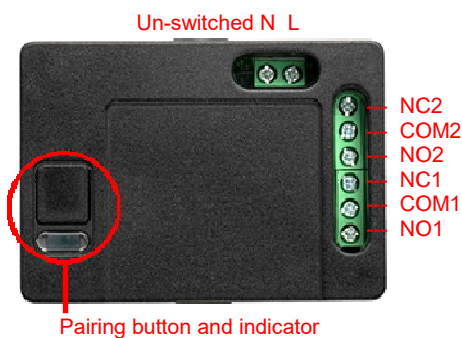
Step 1 - Ensure dust extractor is isolated from the mains supply. Use test equipment to verify. The extractor must have a means of isolation e.g. rotary isolator, removable connectors to safely allow maintanance. This is particularly important when a remote control module is fitted, as the unit may remotely start.

Step 2 - Mount the remote control module in the DoL starter enclosure, or in another suitable enclosure using the 2 screw holes, or double sided tape.

Step 3 - Connect the module (terminals are lablelled in the diagram above):

- Connect N to a suitable neutral.
- Connect L to a permanent live supply, fused at a max of 10A.
- Connect NO1 and COM1 in **parallel** accross the DoL START button N/O switch terminals.
- Connect NC2 and COM2 in **series** to the DoL STOP button N/C terminals. This will require a wire to be removed from a terminal on the STOP button and connected COM2, with NC2 then connecting to where the wire was removed on the stop button. It does not matter which side of the STOP switch this occurs.
- Check all new connections. Replace enclosure cover once remotes have been paired.

Step 4 - Pairing Remotes

- Connect power to the module.
- Press the module pairing button firmly once. The indicator will flash once and then remain on.
- Press the ON button on the remote. When the ON button has been sucesfully paired the indicator will flash 3 times, remaining continually on after the third flash.
- Press the OFF button on the remote. When the OFF button has been sucesfully paired the indicator will flash 3 times, turning off after the third flash.

- To completely clear all paired remotes, press the button 8 times.
- The module will only operate with remotes which have a separate ON and OFF button; single button remotes are not compatible.

Step 5 - Test:

- Turn on the power to the extractor.
- Test that the extractor DoL starter START and STOP buttons operate normally.
- Press the ON and OFF buttons on the remote control fob to check that they operate the extractor. Repeat for any additional fobs or switches.
- The buttons on the extractor DoL starter and remote control fob can be pressed in any order.

Operating Instructions

- Pressing the START button on the DoL starter will still start the extractor.
- Pressing the STOP button on the DoL starter will continue to stop the extractor.
- With the remote module installed, pressing the ON button on any of the remotes closes the dol starter START circuit, minicing manually pressing the START button.
- Pressing the OFF button on any of the remotes opens the DoL starter STOP circuit, minicing manually pressing the STOP button.
- The buttons on the DoL starter and remotes can be pressed in any order to control the extractor.
- Ensure that the extractor is isolated at the mains before services etc, as it may start at any time through the remote control fobs.

Wiring Diagram

Three Phase Example

L1 N L2 L3 Live feed to remote module to be fused at 10A max

N

L

A1 A2

Connected in parallel to the start switch terminals

CONTACTOR

L1 L2 L3 13

NO1

START

COM1

T1 T2 T3 14

OVERLOAD

95

T1 T2 T3 96

M

Disconnect wire from switch and connect directly to COM2

STOP

NC2

COM2

Wire NC2 to the STOP switch