

## POINT CONTACTOR UNIT (PCU)

### INTEGRA ENGINEERING INDIA LIMITED.

- Founded in 1987
- Group Company of INTEGRA Holding AG, Switzerland
- ISO 9001:2000 certified company
- One of the leading manufacturer and supplier of various electrical and electro-mechanical equipments for Railway, power and infrastructure segment in INDIA
- Robust in offering & delivering economical, customized, end-to-end solutions as a whole suiting to those companies who are either looking for off shore solution or intended to extend their business in India
- All the products are manufactured as per RDSO and International standards in controlled environment by a fleet of highly skilled and trained technicians

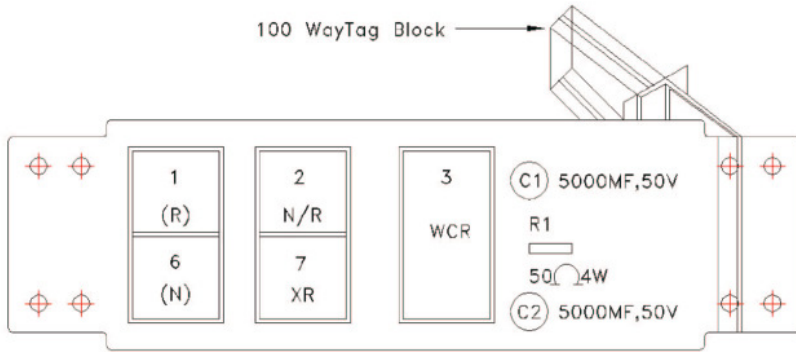


**POINT CONTACTOR UNIT (PCU)** is used for controlling **Point Machine** without using a Point Group in relay room, It is installed at site and used to work in conjunction with the neutral and interlocked relay in the cabin.

Point Contactor Unit operates on 24V DC

#### Relay Provided in Point Contactor Unit

- **N/R relay** :- Normal/Reverse Operation Control Relay
- **W(R/N)R** :- Point operation controlling relay
- **XR** :- One operation only ensuring relay
- **WCR** :- Point contactor relay



**RELAY POSITION DETAIL:**

1. R- 6F/2B-TOP Relay of Interlock
6. N-6F/2B-Bottom Relay of Interlock
2. N/R 4F/4B Special Relay
3. WCR-4NO/4NC Heavy Duty Contactor
7. XR -4F/4B Neutral Relay

**TERMINATION DETAILS**

**Power Supply Connection**

- Connect B24 V DC Supply at Tag Pin No.11
- Connect N24 V DC Supply at Tag Pin No.25
- Connect B110 V DC Supply at Tag Pin No.60
- Connect N110 V DC Supply at Tag Pin No.58
- Connect B12 V DC Supply at Tag Pin No.59
- Connect N12 V DC Supply at Tag Pin No.30

**Point M/C Connection**

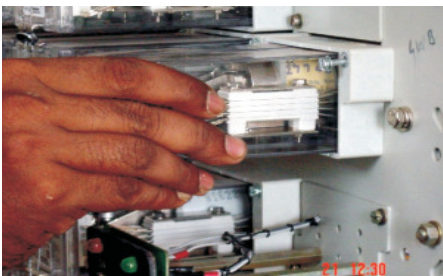
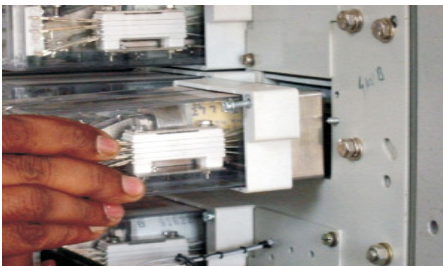
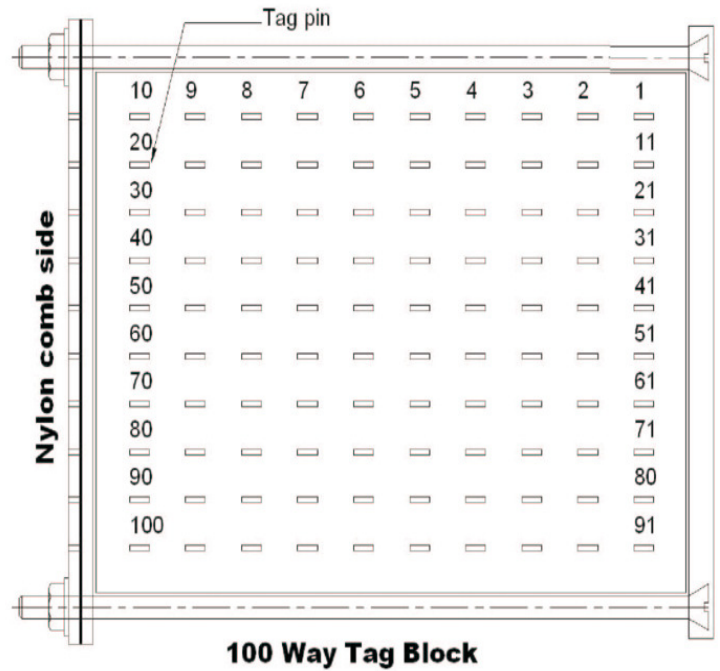
- Connect Normal Control wire at Tag Pin No.39
- Connect Detection Control wire at Tag Pin No.45
- Connect Reverse Control wire at Tag Pin No.97
- Connect Common Control wire at Tag Pin No.93

**RKR Relay Connection**

- Connect Tag Pin No.51 at NKR back Contact
- Connect Tag Pin No.50 at ( R ) Lever

**NKR Relay Connection**

- Connect Tag Pin No.52 at RKR back Contact
- Connect Tag Pin No.50 at ( N ) Lever



**MAIN FEATURES**

The TM type INTEGRA Relays has been designed to meet the basic conditions of Railway Signalling Safety Requirements as mentioned below :

- ⇒ Any one front contact closed proves all back contacts open
- ⇒ Any one back contact closed proves all front contacts open
- ⇒ TM Type safety relays have been designed to fulfill the recommended requirements of IRS S-46, IRS : S-34 and IRS: S-23 as applicable.
- ⇒ All front and back contacts of the relay are Metal to Metal.
- ⇒ All the fixed contacts of our relays are twin contacts which enhance further safety level thus reduce the probability of contact failure to one thousandth of a comparable single contact.
- ⇒ Plug-in type Relays
- ⇒ Various contact configuration of Relays (i.e. 5F/3B, 6F/2B, 4F/4B etc.)