

FOR TYPICAL REMOTE CONTROL DETAILS, SEE DOCUMENT **RWS100**

| TRANSFORMER TAPPING OPTIONS | | |
|---------------------------------------------------------------|-----------------|----------|
| Tap | Nominal 50/60Hz | FUSE FS1 |
| VOLTAGE | 50HZ/60HZ | |
| LOW | 115 | 500mA |
| HIGH | 230 | 250mA |
| FUSE FS1 TO BE ANTI SURGE | | |
| CAPACITOR START/RUN (CS/CS2 AND CR/CR2) COMBINATIONS & VALUES | | |
| VARY WITH SUPPLY VOLTAGE & ACTUATOR SIZE. | | |

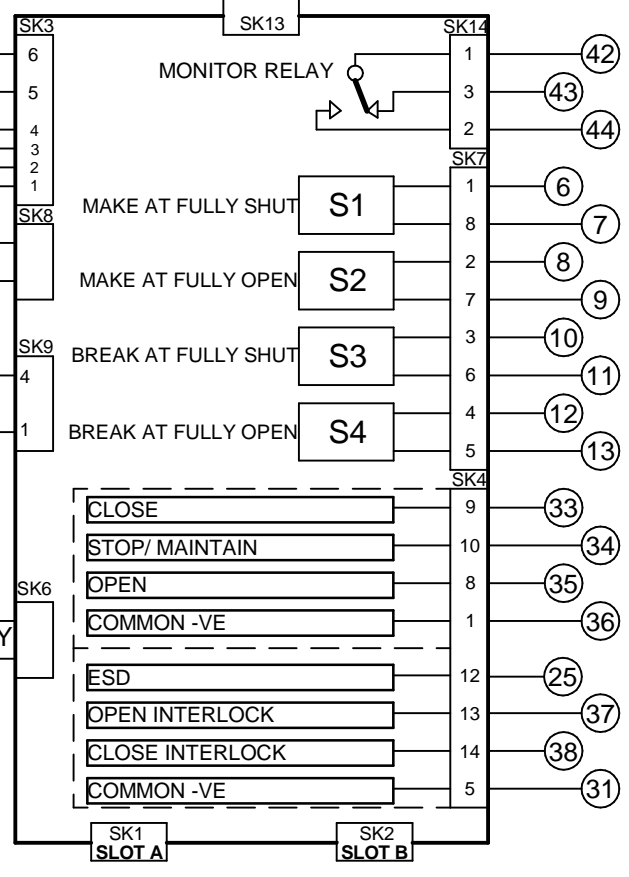
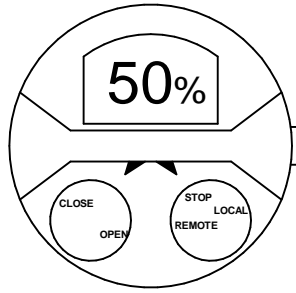
REFER TO SHEET 2 FOR NOTES & OPTION PCB'S IF FITTED

TORQUE SENSOR

POSITION SENSOR 10 WAY

BATTERY -

FS2 (IF FITTED) 100mA +



| Iss | Date | Chkd | Revision Details |
|-----|--------|------|------------------|
| 1 | 130318 | JC1 | First Issue. |

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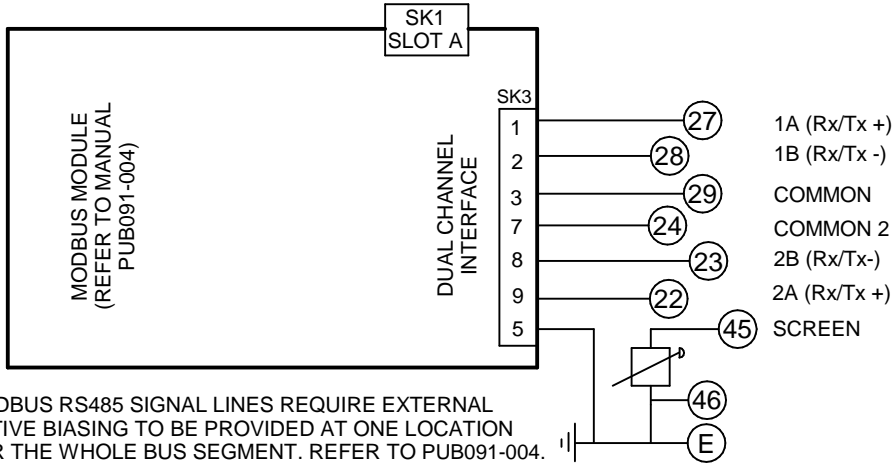
ROTORK CONTROLS LTD
BATH, BA1 3JQ
ENGLAND
Tel:01225-733200

ROTORK CONTROLS INC
ROCHESTER
NY 14624, USA
Tel:585-247-2304

| IQ SINGLE PHASE + CPT + DUAL CHANNEL MODBUS MODULE | | Circuit Diagram Number | | Issue No | Sheet |
|----------------------------------------------------|----|------------------------|----|----------|----------|
| | | 121M3000 | | 1 | 1 |
| B1 | C1 | B2 | C2 | | of 2 |

Drawn by: PJW
Date : 130318
Base WD: 121M3000
Job No : --
MI No : --

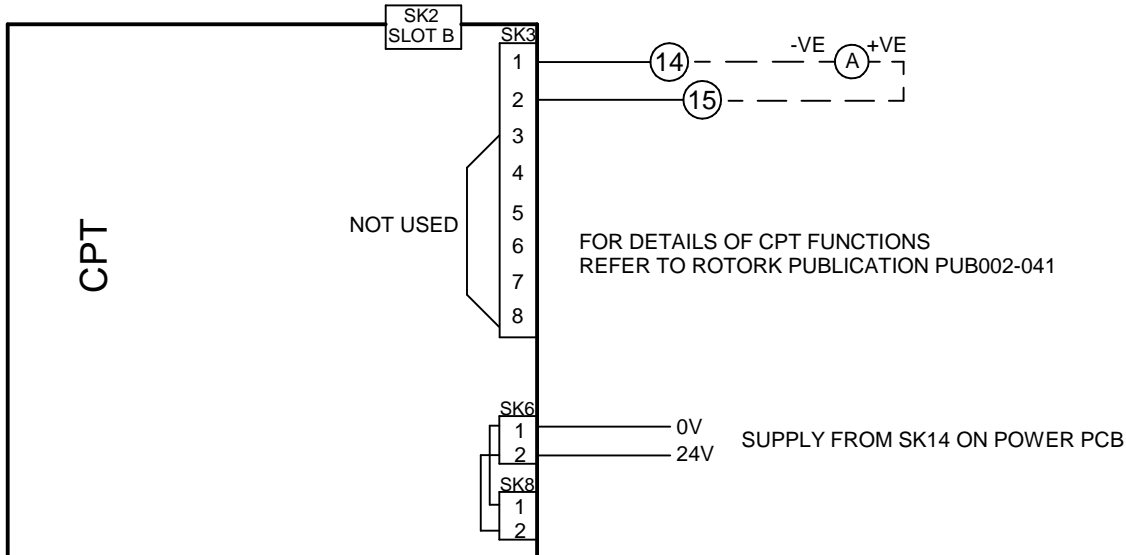
SLOT A



PASSIVE TERMINATION CONTROLLED
VIA SETTING IN ACTUATOR
CONFIGURATION.
REFER TO PUB002-040

MODBUS RS485 SIGNAL LINES REQUIRE EXTERNAL
ACTIVE BIASING TO BE PROVIDED AT ONE LOCATION
FOR THE WHOLE BUS SEGMENT. REFER TO PUB091-004.

SLOT B



NOTES

1.FUSES:

- PS1 is a self-resetting fuse.
- Refer to publication PUB002-039 for approved fuses FS1 and FS2.
- Actuator rated voltage specified on nameplate. Voltage tolerance +/-10%, applies for rated torque performance; duty cycle is not guaranteed.

2.REMOTE CONTROL:

- For typical remote control circuits refer to:
 - RWS indicated or PUB002-041.
- For DC and AC control, connect -ve/0V to terminal 36.
- (For negative switch / positive common, refer to RWS indicated).
- Control signal threshold voltages:
 - DC: "on" ≥16Vdc / "off" ≤8Vdc, max 60Vdc.
 - AC: "on" ≥60Vac / "off" ≤40Vac, max 120Vac.
- Control signal duration to be 300ms minimum.
- Maximum current drawn from remote control signals is:
 - 8mA at 24Vdc or 12mA at 120Vac.
- Supply provided on terminals 4 & 5:
 - Intended for remote control.
 - Max external load 5W at 24Vdc / 5VA at 120Vac

3.INDICATION:

- For typical position, status and alarm indication see PUB002-041.
- “S” contacts are user configurable and are shown in their default setting.
- Refer to PUB002-040 for functions and configuration instructions.
- Monitor Relay indicates actuator availability for remote control (shown “unavailable”). It can be configured to exclude local/remote selection.
- Refer to PUB002-040 for monitored functions and configuration instructions.
- Voltage applied to indication contacts must not exceed 150Vac
- Individual Switch current must not exceed 3.5A inductive, 5A resistive and no more than 8A in total for all 4 contacts.

4.BATTERY:

- Battery maintains local and remote “S” contact indication only.
- Refer to installation manual for approved replacement battery types.