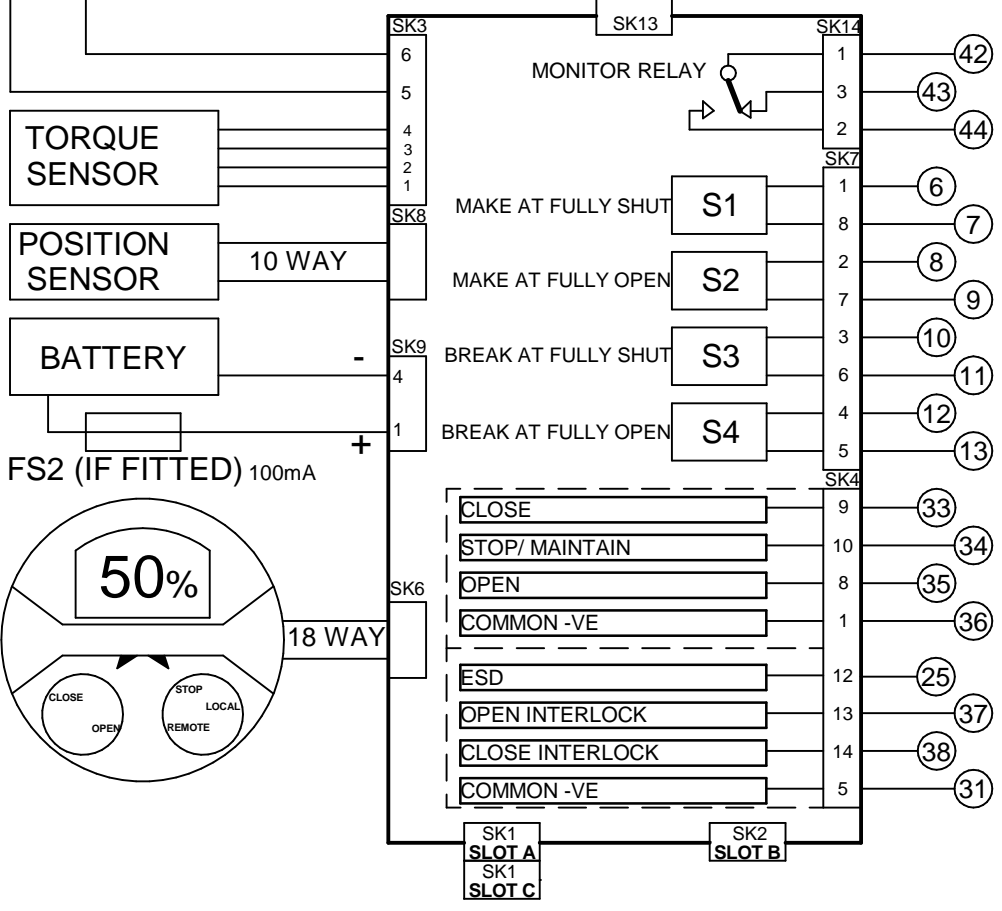


FOR TYPICAL REMOTE CONTROL DETAILS, SEE DOCUMENT **RWS122**

| TRANSFORMER TAPPING OPTIONS |                 |
|-----------------------------|-----------------|
| Tap                         | Nominal 50/60Hz |
| TYPE 1                      |                 |
| W                           | 220/230         |
| X                           | 380/400         |
| Y                           | 400,415/420     |
| Z                           | 440/460         |
| FUSE FS 1=250mA ANTI-SURGE  |                 |
| TYPE 2                      |                 |
| W                           | 346/380         |
| X                           | 480/500         |
| Y                           | 240/240         |
| Z                           | 550/575         |
| FUSE FS 1=250mA ANTI-SURGE  |                 |
| TYPE 3                      |                 |
| X                           | 660/660-690     |
| Y                           | 690/-           |
| FUSE FS 1=150mA ANTI-SURGE  |                 |

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



| Iss | Date   | Chkd | Revision Details |
|-----|--------|------|------------------|
| 1   | 250122 | PJW  | FIRST ISSUE      |

**www.rotork.com**

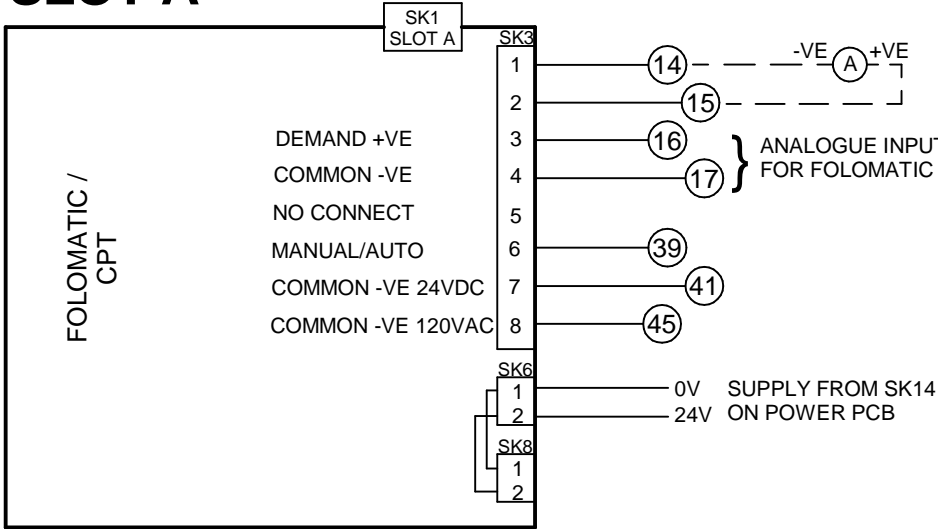
ROTORK CONTROLS LTD  
BATH, BA1 3JQ  
ENGLAND  
Tel:01225-733200

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

|  |  |                        |  |          |          |
|--|--|------------------------|--|----------|----------|
| IQ + DUAL CHANNEL MODBUS + FOLOMATIC / CPT + RHS |  | Circuit Diagram Number |  | Issue No | Sheet    |
|  |  | <b>103M3006</b>        |  | <b>1</b> | <b>1</b> |
|  |  |                        |  |          | of 2     |

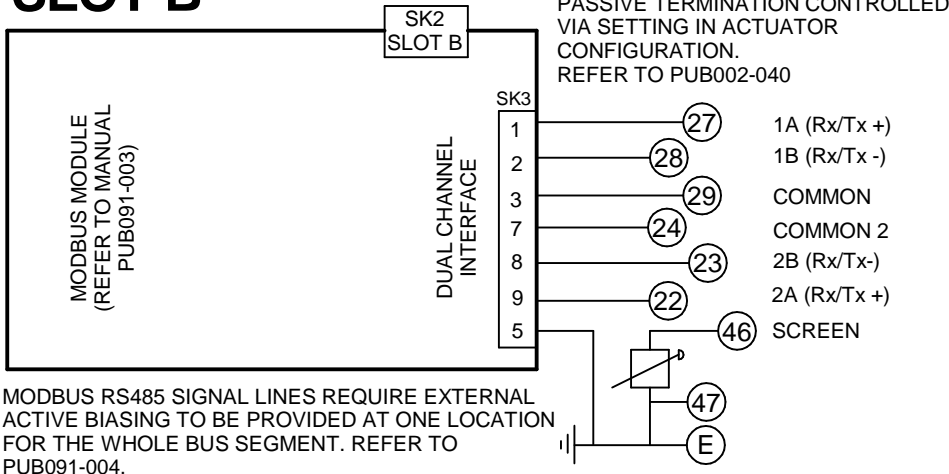
# SLOT A

CIRCUIT DRAWN WITH POWER SUPPLY OFF

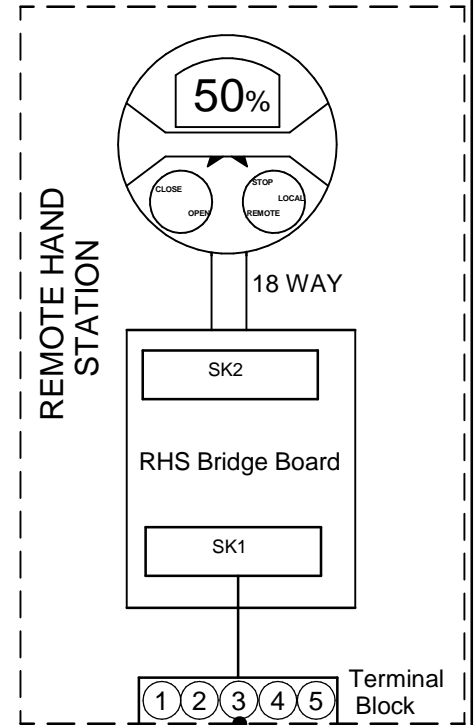


FOR MANUAL/AUTO CONNECTIONS AND DETAILS OF FOLOMATIC/CPT FUNCTIONS REFER TO ROTORK PUBLICATION PUB002-041 FOR MODBUS CONTROL FOLOMATIC MUST BE CONFIGURED FOR MANUAL OPERATION

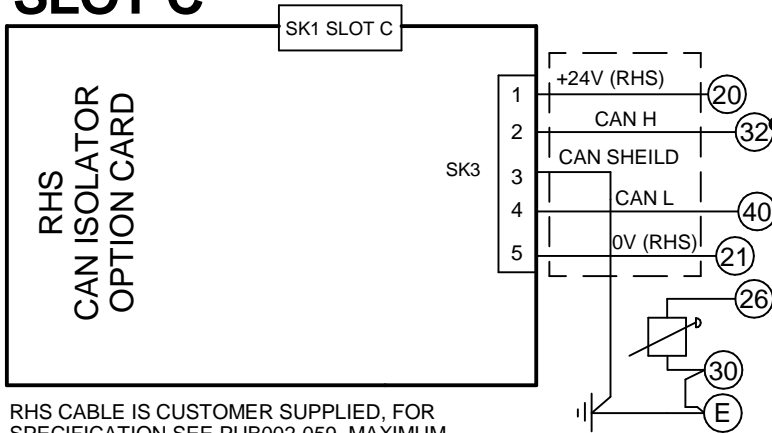
# SLOT B



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



# SLOT C



RHS CABLE IS CUSTOMER SUPPLIED, FOR SPECIFICATION SEE PUB002-059, MAXIMUM LENGTH OF CABLE TO BBE 100m.

| Actuator Terminal Bung No. | RHS Terminal Block No. | Function   |
|----------------------------|------------------------|------------|
| 20                         | 1                      | +24V (RHS) |
| 21                         | 2                      | 0V (RHS)   |
| 32                         | 3                      | CAN H      |
| 40                         | 4                      | CAN L      |
| 24                         | 5                      | SHEILD     |

## 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 150Vdc
- 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.