

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.

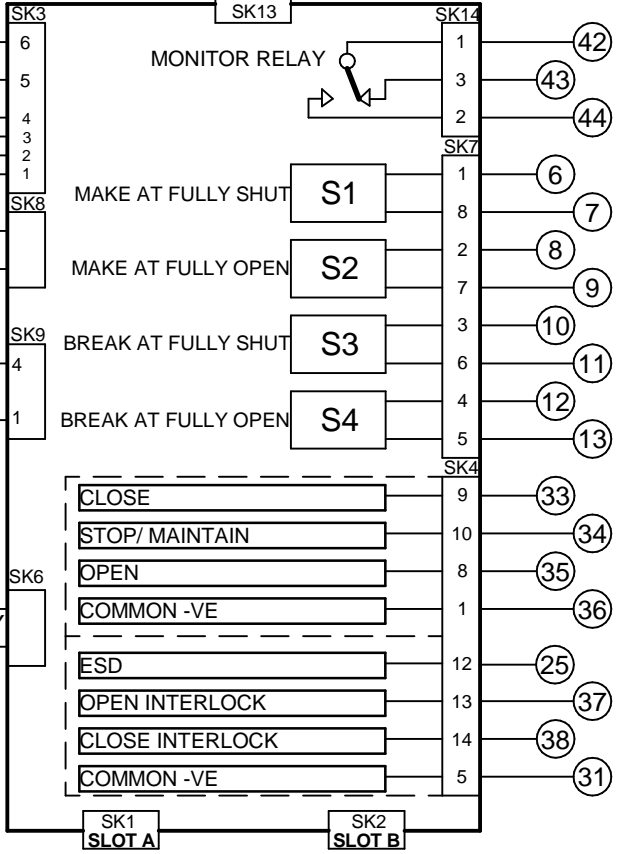
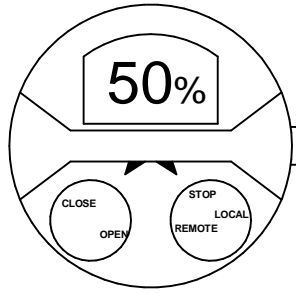
REFER TO SHEET 2 FOR NOTES & OPTION PCB'S IF FITTED

TORQUE SENSOR

POSITION SENSOR 10 WAY

BATTERY -

FS2 (IF FITTED) 100mA +



Iss	Date	Chkd	Revision Details
1	080615	PMJ	First Issue

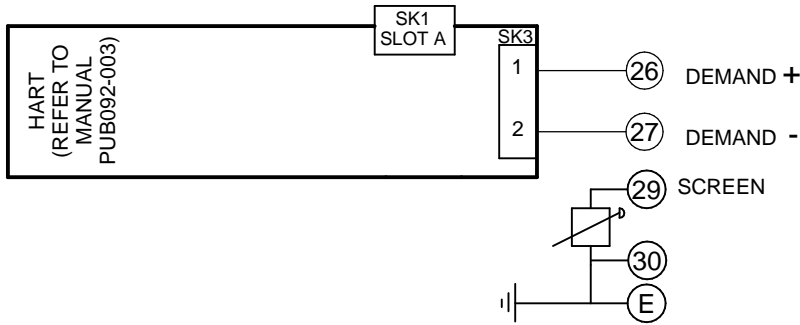
**www.rotork.com**

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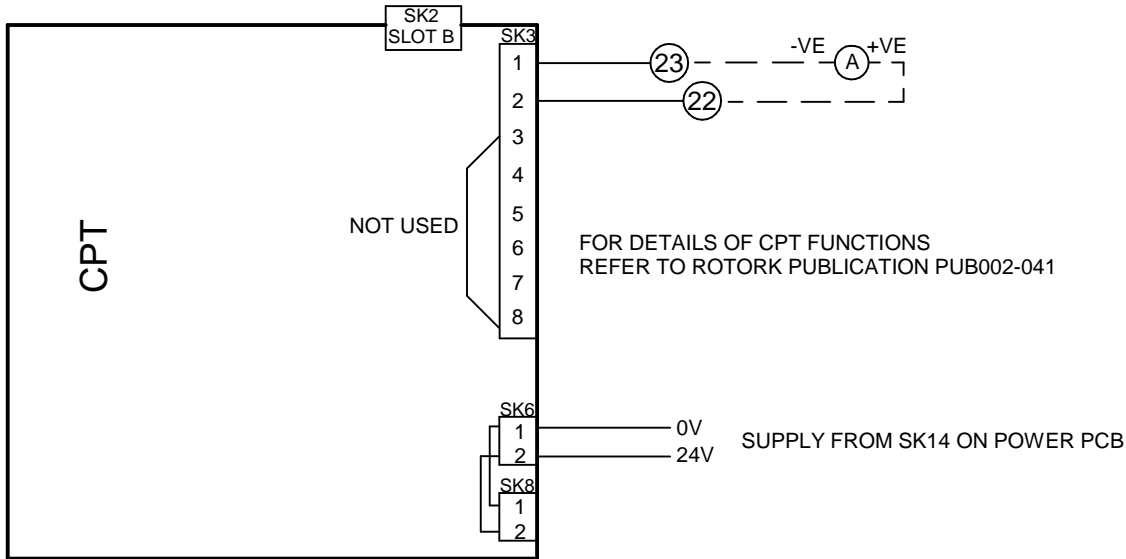
ROTORK CONTROLS INC  
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NY 14624, USA  
Tel:585-247-2304

IQ SINGLE PHASE + HART + CPT		Circuit Diagram Number <b>121H2000</b>		Issue No <b>1</b>	Sheet <b>1</b> of 2
Drawn by: PJW	Date : 080615	Base WD: 121H2000	Job No : --	MI No : --	
B1	C1	B2	C2		

## SLOT A



## 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"  $\geq 16\text{Vdc}$  / "off"  $\leq 8\text{Vdc}$ , max 60Vdc.
  - AC: "on"  $\geq 60\text{Vac}$  / "off"  $\leq 40\text{Vac}$ , 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.

See Sheet 1 for all Revision details/information

Circuit Diagram Number	Issue No	Sheet
121H2000	1	2 of 2