

ITX0080

Installation and Operational manual

(Feb 20,2026)



ITX-0080-EXPLOSION PROOF

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ITX 0080 User Manual

Thank you for purchasing the ITX Series Actuator!

For safe and smooth operation, please make sure to read and understand this manual before use



Important: The contents of this user manual are subject to change without prior notice for the purpose of improving quality or performance

After receiving the actuator, please make sure to check the following items

- Verify that the individual inspection report and electrical wiring drawings are either attached to the inner cover or enclosed inside.
- Visually inspect the painting, position indicator, and other parts to ensure there are no abnormalities.
- Confirm that the inspection report, nameplate, and electrical wiring drawings comply with the purchase requirements.
- If the product is not of the standard specification, check that the supplied product matches the requested specifications.

1. Precautions

- When selecting a valve and actuator, allow approximately 30% margin in torque. For example, if the valve requires 35 Nm of torque, the appropriate actuator should have 80Nm.
- Do not fully open or fully close the actuator before the limit switch settings are completed.
- After completing electrical wiring, ensure that the cable entry is properly sealed.
- Consider environmental conditions such as temperature, humidity, vibration, and voltage drop when determining the installation site.
- If the actuator is not installed immediately, store it in a clean and dry location.
- This manual includes solutions for simple problems; however, if difficulties persist, please contact us or our authorized distributor.
- For repair or maintenance, provide us with the model number, electrical specifications, serial number (S/N), and details of the current operating conditions and specifications to ensure prompt service.

2. Safety Precautions for Explosion-Proof Equipment

1) Specific Operating Conditions

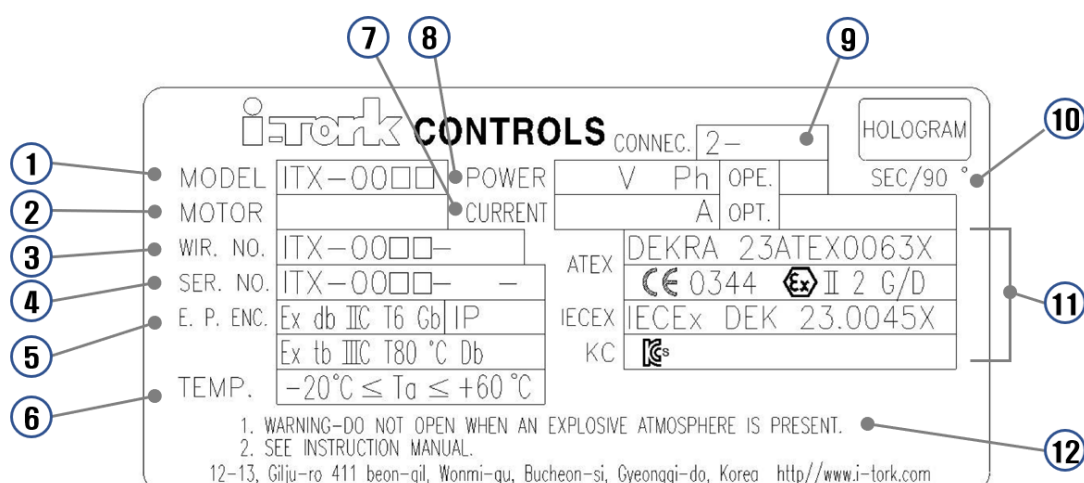
- Explosion-proof joints cannot be repaired.
- Fastening components of grade A2-50 must be used.

2) General Precaution

- Do not open in explosive atmospheres.
- During installation, certified cable glands must be used.
- To maintain explosion-proof characteristics, separately certified cable glands, conduit entry devices, or blanking elements must be applied (e.g, cable glands certified for Ex db IIC)
- When using adapters at cable entries, only one threaded adapter may be used per entry.
- Unused cable entries must be sealed with blanking elements (blind plugs) certified for Ex db IIC.
Blanking elements must not be used together with adapters
- Protective grounding and equipotential bonding must be connected.
- Before operating this equipment, ensure that all electrical and mechanical connections and installation requirements are met.
- Refer to this manual and the applicable standards/codes, including the latest edition of EN/IEC 60079-14

3. Technical Specification

1) Name Plate



- | | |
|------------------------------------|-----------------------------------|
| ① Model type | ⑦ Rated current |
| ② Motor type | ⑧ Rated power |
| ③ Wiring diagram number | ⑨ Cable entry size |
| ④ Serial number | ⑩ Operating time and option |
| ⑤ Ex protection type and IP rating | ⑪ Ex related certification number |
| ⑥ Ambient temperature | ⑫ Warning for safe use |

2) Explosion Proof Information

IECEx certification	IECEx DEK 23.0045X (Compliance to IEC 60079-0:2017, IEC 60079-1:2014, and IEC 60079-31:2022)
ATEX certification	DEKRA 23ATEX0063X (Compliance to EN IEC 60079-0:2018, EN 60079-1:2014, and EN IEC 60079-31:2024)
Ex marking (for explosive gas atmosphere)	Ex db IIC T6 Gb
	-Ex: Ex-product
	-db: Equipment protection by flameproof enclosures "d"
	-IIC: Equipment group or gas group, IIC
	-T6: Temperature class (maximum surface temperature ≤ 85 °C)
	-Gb: EPL (Equipment Protection Level, Zone 1)
Ex marking (for explosive dust atmosphere)	Ex tb IIIC T80 °C Db
	-Ex: Ex-product
	-tb: Equipment dust ignition protection by enclosure "t"
	-IIIC: Equipment group or dust group, IIIC
	-T80 °C: Maximum surface temperature (≤ 80 °C)
	-Db: EPL (Equipment Protection Level, Zone 21)
ATEX marking	 0344  II 2 G/D
Ambient temperature	-20 °C ~ +60 °C
Cable entries	2 - M20x1.5 or 2 - NPT 1/2
Material	enclosures: aluminum alloy / window cover: stainless steel

3) Performance

Torque (Nm)	80 Nm
Operating speed (sec)	20 sec
Main power supply	AC 85 ~ 265 V $\pm$ 10 % (Universal Voltage), MAX 0.6 A AC/DC 24 V $\pm$ 10 %, (MAX 2.0 A)
Duty cycle	S2 30 min, S4 50 % (IEC 60034-1)
Control signal (Modulating)	Input: 4~20 mA, 1~5 V, 2~10V (Option: 0~20 mA 1~5 V, 2~10 V, 0~5 V, 0~10 V) Output: 4~20 mA, (Option: 0~20 mA 1~5 V, 2~10 V, 0~5 V, 0~10 V)
Space heater	2 W
Limit switch	2ea Open, Close
AUX. Limit switch	2ea Open, Close
Ambient humidity	90 % R.H. MAX (non-condensing)
Ingress protection	IP 67 (Option: IP68)
Weight (kg)	3.5

4. Model Code designation

ITX0080 - a b c d

a = Enclosure

1. IP67
2. IP68
3. Ex db IIC T6 Gb IP67
4. Ex db IIC T6 Gb IP68

b = Input Voltage

1. AC 85 ~ 265V 1Ph (Universal Voltage)
2. AC/DC 24V

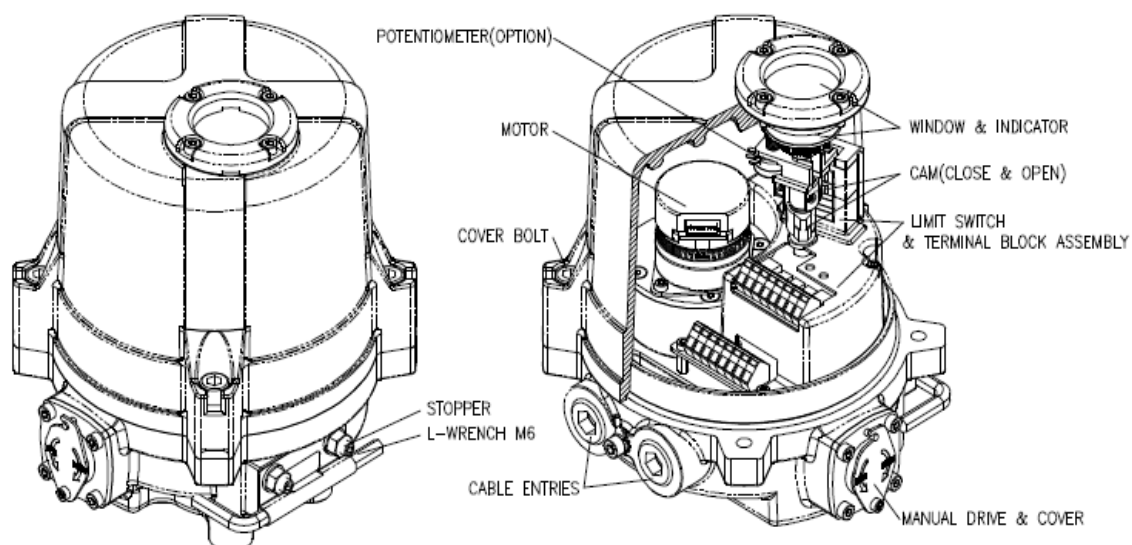
c = Type of operation

1. ON/OFF
2. RPC(Remote Position Controller)
3. CT(Current Transmitter)
4. PK (Potentiometer Unit: 0 ~ 1K Ω)

d = Fieldbus(Optional)

1. Modbus
2. Profibus
3. Can open
4. HART
5. Foundation Fieldbus

5. Actuator components



6. Actuator Valve selection and installation

The ITX actuator is suitable for direct mounting on ISO standard flange valves and dampers. By using appropriate mounting brackets and adapters, the ITX can be installed on all types of quarter-turn equipment. The following table provides a simplified reference for valve selection.

1) Actuator valve selection

Valve Actuator	Rated Torque (Nm)	Butterfly Valve 10K (ANSI 150#)	2-WAY Ball Valve 10K (ANSI 150#)	3-WAY Ball Valve 10K (ANSI 150#)
ITX-0080	80	100A	50A	25A

* Note

- The table is intended as a guideline to assist with quick selection.
- The valve size must be determined by considering the valve manufacturer's specifications, operating temperature, and the characteristics of the fluid.
- For applications under abnormal conditions (such as high temperature, low temperature, seawater exposure, severe corrosion, or heavy vibration), please consult our technical department before selecting an actuator.
- The company assumes no responsibility for selections made without prior consultation or for any selections that deviate from the reference valve selection table provided.

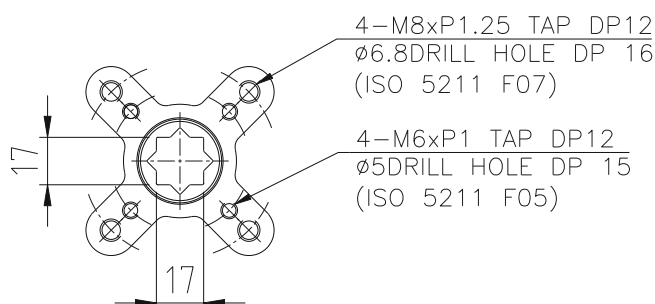
2) Installation

As a general rule, the actuator should be installed with the window facing upward whenever possible. For vertical piping, the actuator's cable entry should be oriented downward toward the ground.

If sealing measures after electrical connection are not properly ensured, water ingress may occur, leading to malfunction or failure.

When installing the actuator onto a valve, proceed as follows:

- Operate the actuator manually until it is fully in the Close position (rotate clockwise).).
- The valve stem must be machined to match our drive shaft specification (17 mm double square)-Place the valve in the Close (shut) position before installation. A small amount of lubricant may be applied to the valve stem if necessary to facilitate smooth assembly
- The bolt holes (BCD) of the valve flange and the actuator mounting surface must be aligned.
- If alignment is not achieved, operate the actuator manually to adjust until proper fit is obtained.



7.Setting

1) Tools required for setting

- L-Wrench 2 set (M5, M6 Metric)

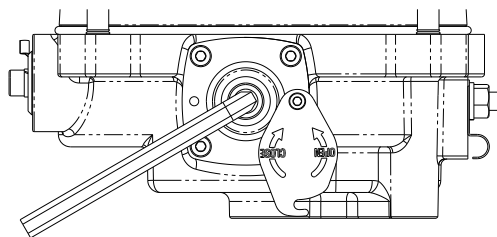
2) Manual operation



Important

Do not touch the manual operating lever while the actuator is in operation

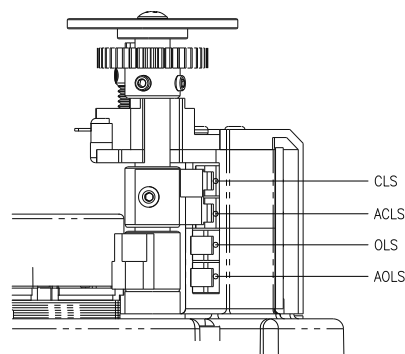
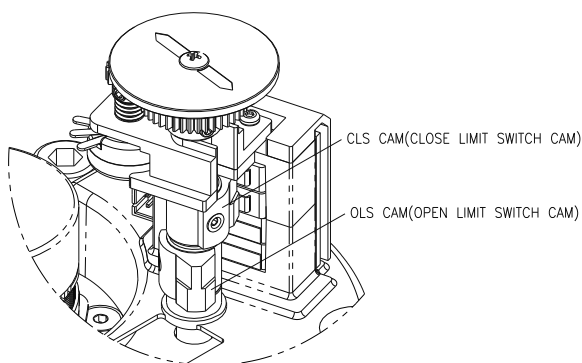
- The manual operating section is located to the right of the main body cable entry.
- Lower the cover into position.
- Remove the M6 wrench from beneath the actuator body.
Insert the wrench into the hexagonal section shown in Figure A
- Clockwise rotation corresponds to the Close (shut) direction
Counter-clockwise rotation corresponds to the Open direction.
- From the fully closed position to the fully open position, approximately seven turns are need
- During manual operation, make sure not to exceed the limit switch settings.



Picture A

3) Limit switch set up

- While observing the position indicator, set the actuator to the Fully Closed position.
- Loosen the CAM bolt using a M5 wrench.
- Slowly rotate the CAM toward the Closed position until two distinct “click” sounds are heard from the limit switch lever.
- Tighten the CAM bolt with an M5 wrench to secure the CAM in place

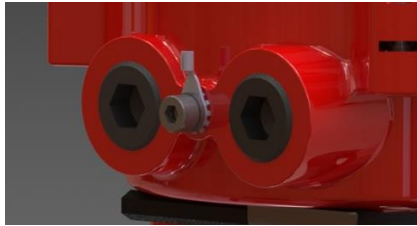


Picture B

8. Electric Wiring

1) Before Wiring checklist

- As shown in the figure, two optional cable entries are provided: M20×1.5 or NPT 1/2.
- Before shipment, these entries are sealed with plugs
- To maintain flameproof characteristics, a certified cable gland must be installed.
- Use only certified cable glands for Ex db IIC applications



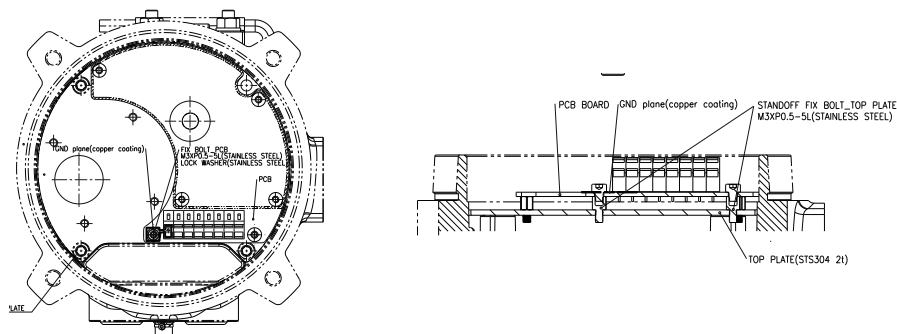
- Do not remove plugs from unused cable entries until needed.
- After completing wiring, seal cable entries with rubber or metal packing to prevent water or foreign substance ingress.
- The manufacturer is not responsible for performance degradation caused by improper cable connections.

2) Electrical wiring

- Check the power supply, wiring, and electrical specifications before operation.
- A wiring diagram is provided with the actuator (enclosed in a vinyl pack or inside the top cover). Keep the actuator interior clean and dry. Supply power to the heater to prevent condensation.
- Ensure all terminal wiring is securely tightened.
- Configure the system so that only one actuator operates per relay.
- Prevent foreign substances from entering the actuator at all times.

3) Protective Grounding and Equipotential Bonding

- Make the protective grounding connection inside the enclosure..
- For power terminal connections, use AWG18–AWG22 supply wires. The protective grounding cable must be the same size or larger.
- An equipotential connection is provided on the enclosure to connect its metalwork to the equipotential bonding system/ground. This is in addition to the protective earth terminal inside the enclosure.
- Adjust the size according to local electrical installation regulations; it must not be less than 4 mm²- When connecting wires to the terminal, use a hand crimping tool to press and secure 1.5–10 mm² wires into the lug.
- If grounding parts (e.g., lugs or bolts) are lost, replace them with parts of the same specification.



4) LED Status (AC SMPS PCB & ACDC 24V PCB)

	LED	SIGNAL
Power LED (GREEN)	ON	POWER ON
Operation LED (YELLOW)	LED OFF	Normal
	LED ON	Over torque
	FLICKERING (0.5s)	ERROR

(During an error, the yellow LEDs on both the ON/OFF board and RPC board behave the same)

9. ON/OFF BOARD configuration

1) Function to set actuator operating direction using DIP switch SW1-1

- When DIP switch SW1-1 is raised (OFF): CW = CLOSE, CCW = OPEN
- When DIP switch SW1-1 is lowered (ON): CW = OPEN, CCW = CLOSE (REV)

2) Function to set actuator ON/OFF mode or RPC mode using DIP switch SW1-2

- When DIP switch SW1-2 is raised (OFF): Operates in STANDARD (ON/OFF) MODE
- When DIP switch SW1-2 is lowered (ON): Operates in RPC MODE
- Switch operation must follow the wiring diagram in Section 14.
- Incorrect wiring or switch settings will cause malfunction or error signals (yellow LED indication or over-torque output).



10. RPC Configuration, Key Functions, and Usage

10.1) Standard specifications

- MODEL: ITX0080-RPC R3.0
- Method of combining the ON/OFF PCB with the connector (MODULE TYPE)
- MAIN POWER(1PH ON-OFF BOARD & ACDC 24V ON-OFF BOARD is identical)
- INPUT SIGNAL: 4~20 mA, 1~5V, 2~10V (OTTION: 0~20 mA 1~5 V, 2~10 V, 0~5 V, 0~10 V)
- OUTPUT SIGNAL: Output: 4~20 mA, (OTTION: 0~20 mA 1~5 V, 2~10 V, 0~5 V, 0~10 V)
- INPUT RESISTANCE: 250Ω
- FEED BACK POTENTIOMETER: 1KΩ
- LOAD RESISTANCE: Max. 750 Ω

- DELAY TIME : Fixed at 1.0 sec.
(If delay time modification is required, please consult with our company)
- DEAD BAND: 1% (if DEAD BAND modification is required, please consult with our company)
- SIGNAL FAIL SAFE POSITION: STOP
- Operating Temperature: -10°C to 60°C (based on RPC PCB surface temperature)

10.2) LED



CLOSE(GREEN) OPEN(RED) FAULT(YELLOW) POWER(WHITE)

10.3) TACT SWITCH [ZERO , SPAN , A-SCAN]



10.4. Manual control using a TACT switch

- After the FAULT (yellow), CLOSE (green), and OPEN (red) LEDs blink twice, and the FAULT (yellow) LED remains lit, press the ZERO (black) and SPAN (gray) buttons simultaneously.
- When the FAULT (yellow) LED is lit, pressing the ZERO (black) button operates in the CLOSE direction, and the CLOSE (green) LED lights up. Operation continues only while the ZERO (black) button is pressed.
- When the FAULT (yellow) LED is lit, pressing the SPAN (gray) button operates in the OPEN direction, and the OPEN (red) LED lights up. Operation continues only while the SPAN (gray) button is pressed.
- If the ZERO (black) and SPAN (gray) buttons are pressed simultaneously again, or if no signal is received from either button for about 15 seconds, the FAULT (yellow), CLOSE (green), and OPEN (red) LEDs blink twice, then the system returns to standby mode

10.5) AUTO SCAN

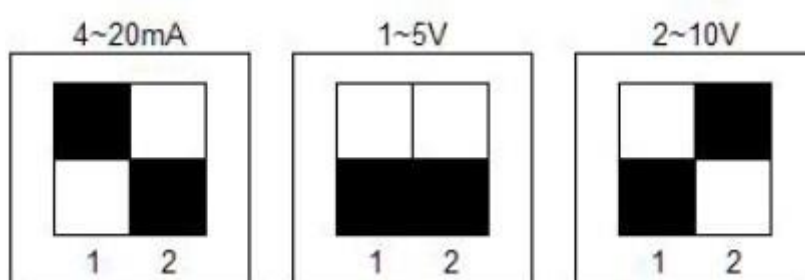
- After the FAULT (yellow), CLOSE (green), and OPEN (red) LEDs blink twice, and the FAULT (yellow) LED remains lit, press the "A-SCAN" (red) button.
- The actuator operates to full CLOSE and full OPEN positions while measuring the range.
- During CLOSE operation, verify the CLOSE (green) LED lights up; during OPEN operation, verify the OPEN (red) LED lights up.
- When AUTO SETTING is completed, the FAULT (yellow), CLOSE (green), and OPEN (red) LEDs blink twice, then the system returns to standby mode.
- Apply the input signal and confirm normal actuator operation.
- Executing AUTO SETTING deletes stored values and saves new ones; exercise caution during execution.
- Perform AUTO SETTING only once: during initial installation, when adjusting the LIMIT SWITCH CAM, or when replacing the POTENTIOMETER or RPC.

10.6) DIP SWITCH Setting(SW2)

- Set DIP switch SW2 to ON (raised) when configuring input and output signals

10.7) Input Signal (SW3)

- Operate the SW3 switch to select the input signal, as shown in the table below



DIP S/W	1	2
INPUT SIGNAL		
4~20mA	ON	OFF
1~5V	OFF	OFF
2~10V	OFF	ON



- Set the input signal type to 1~5V or 2~10V using the SW3 DIP switch.
- Turn the SW2 DIP switch ON and verify the POWER (white) LED is blinking.
- Apply the CLOSE value (1V or 2V DC) and press the ZERO button until the FAULT (yellow), CLOSE (green), and OPEN (red) LEDs blink twice.
- Apply the OPEN value (5V or 10V DC) and press the SPAN button until the FAULT (yellow), CLOSE (green), and OPEN (red) LEDs blink twice.
- After completing input signal setting, turn the SW2 DIP switch OFF and verify the POWER (white) LED is lit.
- Apply the input signal and confirm normal actuator operation.

- Note: If the input signal is set to 0–20mA, 0–5VDC, or 0–10VDC, the NO SIGNAL FAULT function will not operate.

10.8) Output Signal adjustment

- Connect the measuring instrument to the AO terminal, ensure correct polarity, and check the output signal.
 - Adjust the output signal in the sequence: 4mA → 20mA → 12mA → 16mA.
 - Turn the SW2: SET switch ON and verify the POWER (white) LED is blinking.
 - Press the ASCN button for 2 seconds. After all LEDs blink twice, the POWER (white) and CLOSE (green) LEDs blink while the CLOSE signal (4mA) is output.
 - While monitoring with a measuring instrument, adjust the CLOSE output using the ZERO (black) button (decrease) and SPAN (gray) button (increase).
 - Press the ASCN button for 2 seconds again. After all LEDs blink twice, the POWER (white) and OPEN (red) LEDs blink while the OPEN signal (20mA) is output.
 - While monitoring with a measuring instrument, adjust the OPEN output using the ZERO (black) button (decrease) and SPAN (gray) button (increase).
- Press the ASCN button for 2 seconds again. After all LEDs blink twice, the FAULT (yellow) LED lights up, and the POWER (white) and CLOSE (green) LEDs blink while the (12mA) signal is output.
- While monitoring with a measuring instrument, adjust the signal to (12mA) using the ZERO (black) button (decrease) and SPAN (gray) button (increase).
 - Press the ASCN button for 2 seconds. After all LEDs blink twice, the FAULT (yellow) LED lights up, and the POWER (white) and OPEN (red) LEDs blink while the (16mA) signal is output.
 - While monitoring with a measuring instrument, adjust the signal to (16mA) using the ZERO (black) button (decrease) and SPAN (gray) button (increase).
 - Press the ASCN button again for 2 seconds. The adjusted output signal is stored, and only the POWER (white) LED blinks.
 - When the SW2: SET switch is turned OFF, the POWER (white) LED lights up.
 - Apply the input signal and confirm normal output operation.
 - If the SW2: SET switch is turned OFF during adjustment, the output signal will not be stored, and the device enters standby mode.

10.9) AUTO FULL

- When the input signal is 2% or less (DC 4.3 mA), the device operates in FULL CLOSE mode.
- When the input signal is 98% or more (DC 19.7 mA), the device operates in FULL OPEN mode.

10.10) LED status indication during operation

	LED	SIGNAL
POWER (WHITE)	ON	POWER ON
	FLICKERING	“SW2 : SET” ON

CLOSE (GREEN)	FLICKERING ON	CLOSING or A-SCAN FULL CLOSE
OPEN (RED)	FLICKERING ON	OPENING or A-SCAN FULL OPEN
FAULT (YELLOW)	ON	AUTO SETTING or Manual operation
	FLICKERING	No RPC input signal
	YELLOW+GREEN FLICKERING	POTENTIOMETER FAULT
	YELLOW+RED FLICKERING (A-SCAN only)	The motor does not operate Operates in reverse direction No change in P.K value (RPC ONLY)
	YELLOW FLICKERING GREEN+RED ON	INPUT SIGNAL MEMORY FAULT Loss of DC 4–20 mA input signal Loss of AUTO-SETTING data
	YELLOW FLICKERING GREEN+RED ON	RPC MODULE wiring error
	YELLOW FLICKERING GREEN 또는 RED ON	OVER TORQUE CW=GREEN, CCW=RED

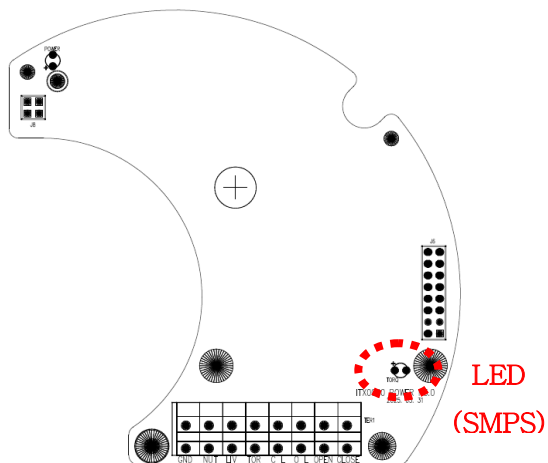
11.POTENTIOMETER Setting

Connect P1 (GRAY), P2 (PURPLE), and P3 (ORANGE).

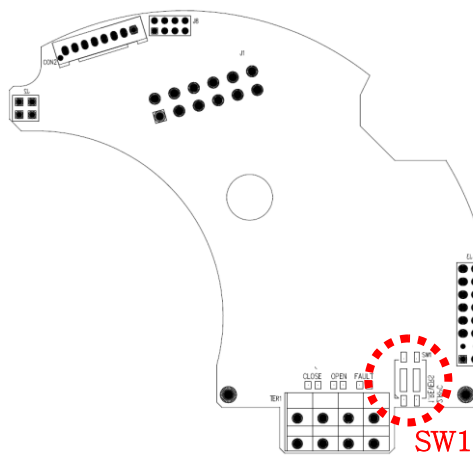
- Position the equipment at mid-range (approx. 50%)
- Using a measuring instrument (e.g., DMM), adjust the resistance between P1 (GRAY) and P2 (PURPLE) to approx. 500 Ω .
- During CLOSE-to-OPEN operation, verify that the resistance between P1 (GRAY) and P2 (PURPLE) changes within 80–950 Ω .
- As the equipment operates in the OPEN direction, the resistance between P1 (GRAY) and P2 (PURPLE) increases.

12. PCB LAY-OUT

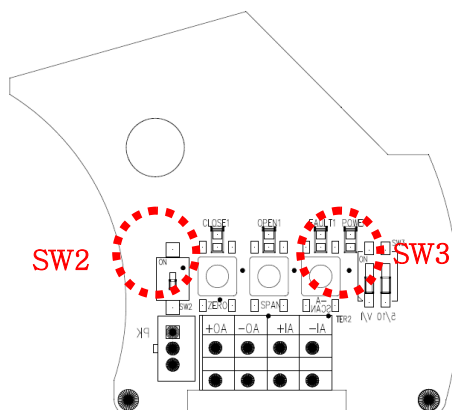
11.1) AC SMPC PCB (STANDARD) & AC/DC 24V PCB (STANDARD)



11.2) OUX. PCB (STANDARD)



11.3) RPC PCB



13. After Sales Service

1) In the following cases, service is provided free of charge.

- When the delivered product differs from the ordered specifications
- When the product does not match the QC documents issued by the manufacturer
- When defects (in parts and/or assembly) are found

A manufacturer's warranty is guaranteed for one year from the delivery date

2) Paid Service Conditions.

- When failures occur due to excessive use beyond the product specification
- When failures are caused by the user's intentional acts or negligence (e.g., unauthorized modification, disassembly/reassembly)
- When failures result from altering the company's standard electrical wiring.
- When problems occur because waterproofing was not secured at the cable entry point.
- When issues arise due to not keeping the internal heater power ON continuously (24 hours)
- When failures are caused by fire, flood, or natural disaster.
- When, by common sense, the fault is recognized as the user's responsibility.
- When performance defects or failures occur after the warranty period of one year from the shipment date has expired

14. Maintenance

1) Lubricant

At the time of shipment, sufficient lubricant is applied, so normally recharging is not required. However, if deemed necessary, lubricant should be re-applied approximately once every two years. .

2) Regular Inspection and Operation

- The actuator must be supplied with power at all times.
- It is recommended to operate the actuator once a week.
- To ensure long service life, a regular maintenance inspection once a year is required, covering operating condition, corrosion, and painting.
- For further inquiries, please contact our company or an authorized distributor

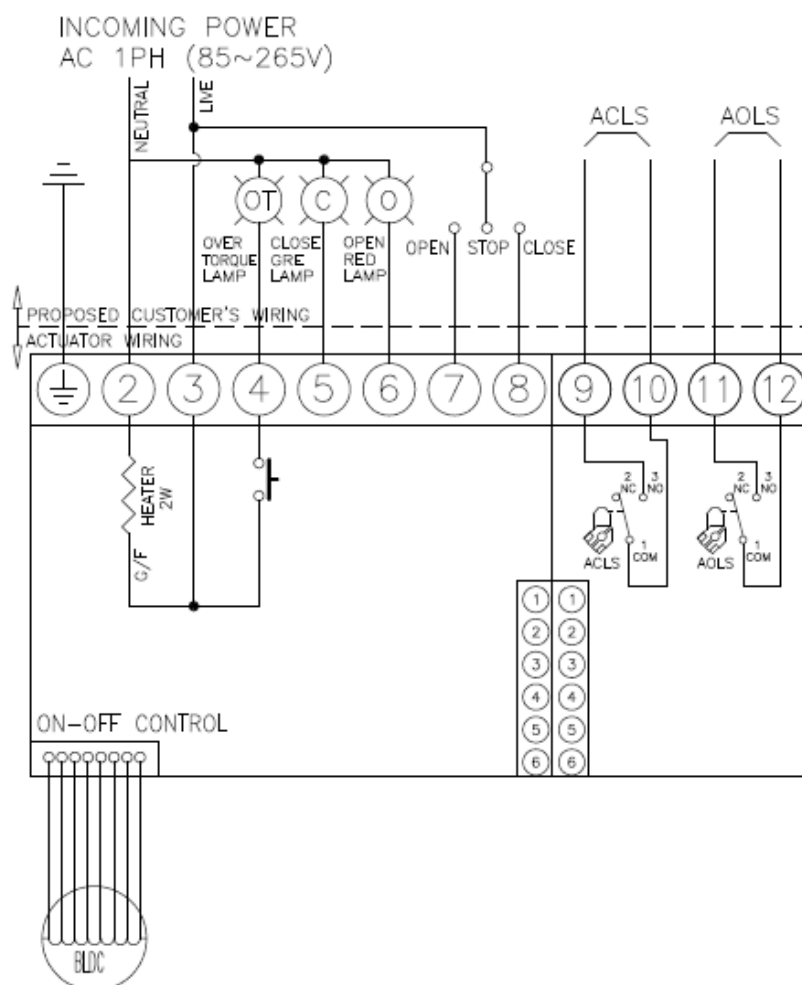
15. Wiring Diagram

ITX0080-70000-A [1PH+STANDARD] , INCOMING POWER : AC 85~265V $\pm$ 10%

ITX ELECTRIC QUARTER TURN ACTUATOR

CLS : CLOSE LIMIT SWITCH (250VAC 3A)
 OLS : OPEN LIMIT SWITCH (250VAC 3A)
 ACLS : AUX. CLOSE LIMIT SWITCH (250VAC 3A)
 AOLS : AUX. OPEN LIMIT SWITCH (250VAC 3A)
 OTS : TORQUE RELAY SWITCH (250VAC 3A)
 *EACH ACTUATOR SHOULD BE POWERED THROUGH
 ITS OWN INDIVIDUAL SWITCH OR RELAY CONTACTS
 TO PREVENT CROSS FEED BETWEEN TWO OR
 MORE ACTUATORS.

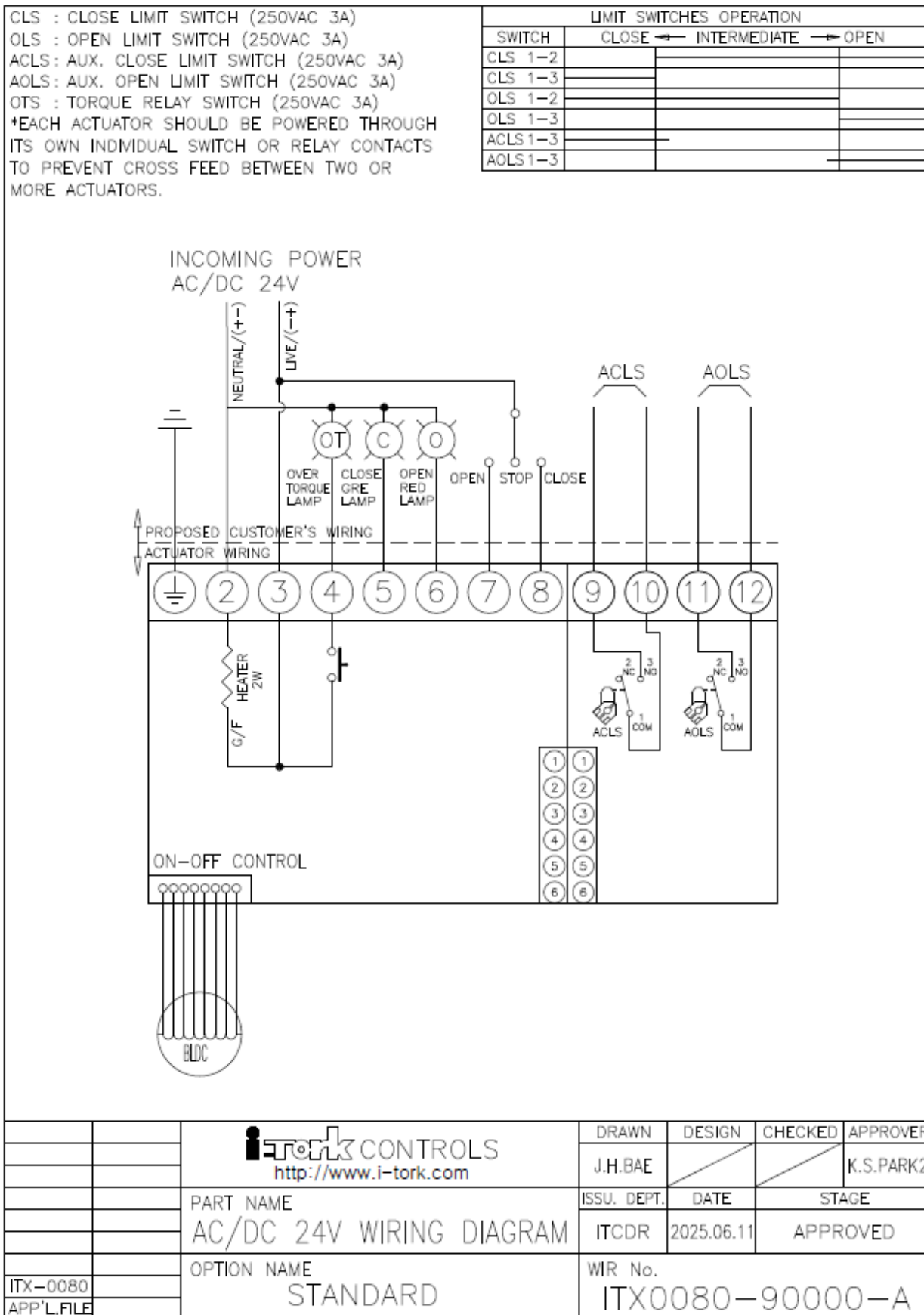
LIMIT SWITCHES OPERATION		
SWITCH	CLOSE ←	INTERMEDIATE → OPEN
CLS 1-2		
CLS 1-3		
OLS 1-2		
OLS 1-3		
ACLS1-3		
AOLS1-3		



		 i-tork CONTROLS http://www.i-tork.com	DRAWN	DESIGN	CHECKED	APPROVER
			J.H.BAE			K.S.PARK2
		PART NAME	ISSU. DEPT.	DATE	STAGE	
		1PH WIRING DIAGRAM	ITCDR	2025.06.11	APPROVED	
		OPTION NAME	WIR No.			
		STANDARD	ITX0080-70000-A			
ITX-0080						
APP'L FILE						

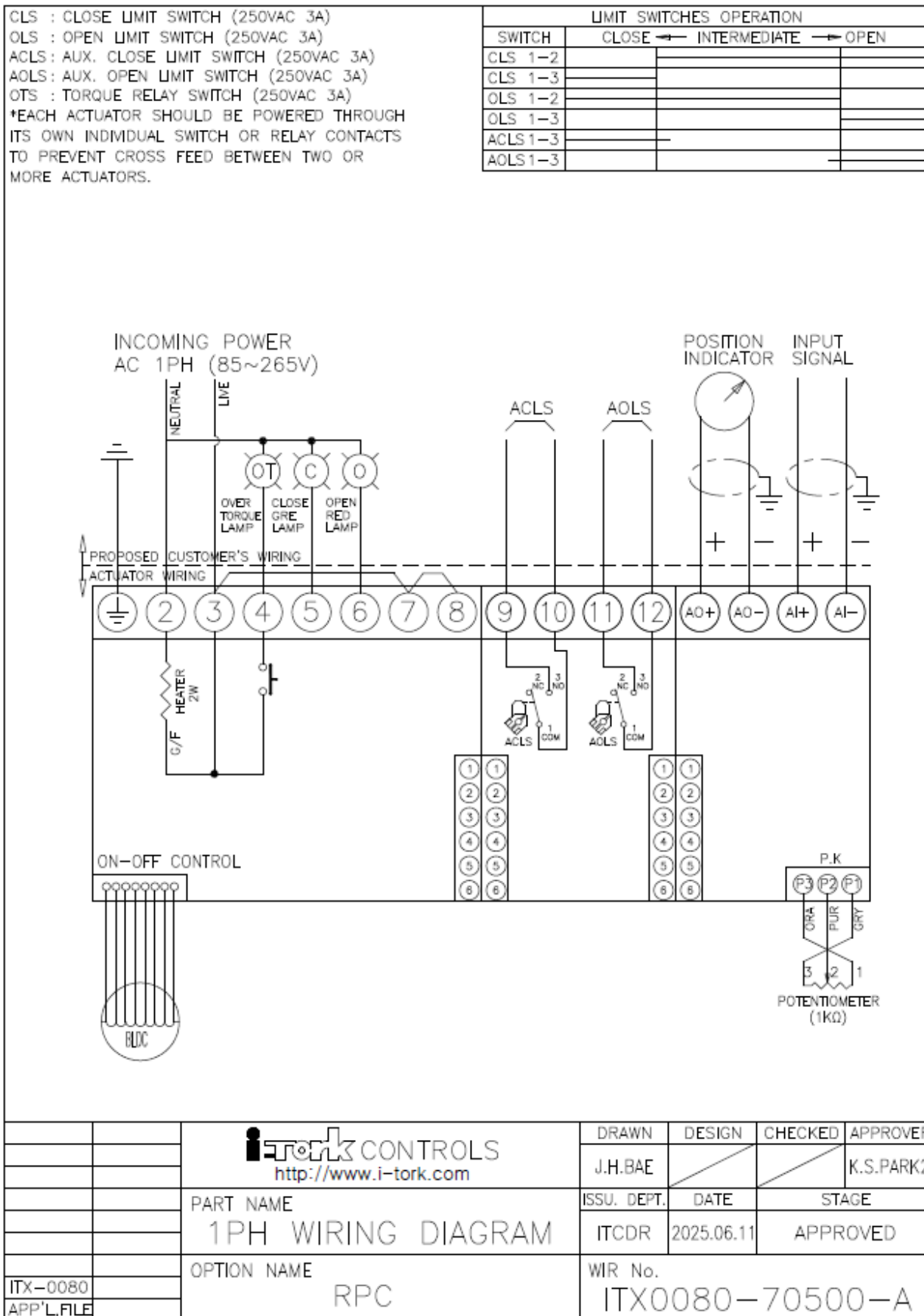
ITX0080-90000-A [ACDC24V+STANDARD] , INCOMING POWER : AC/DC 24V ±10%

ITX ELECTRIC QUARTER TURN ACTUATOR



ITX0080-70500-A [1PH+RPC] , INCOMING POWER : AC 85~265V $\pm$ 10%

ITX ELECTRIC QUARTER TURN ACTUATOR



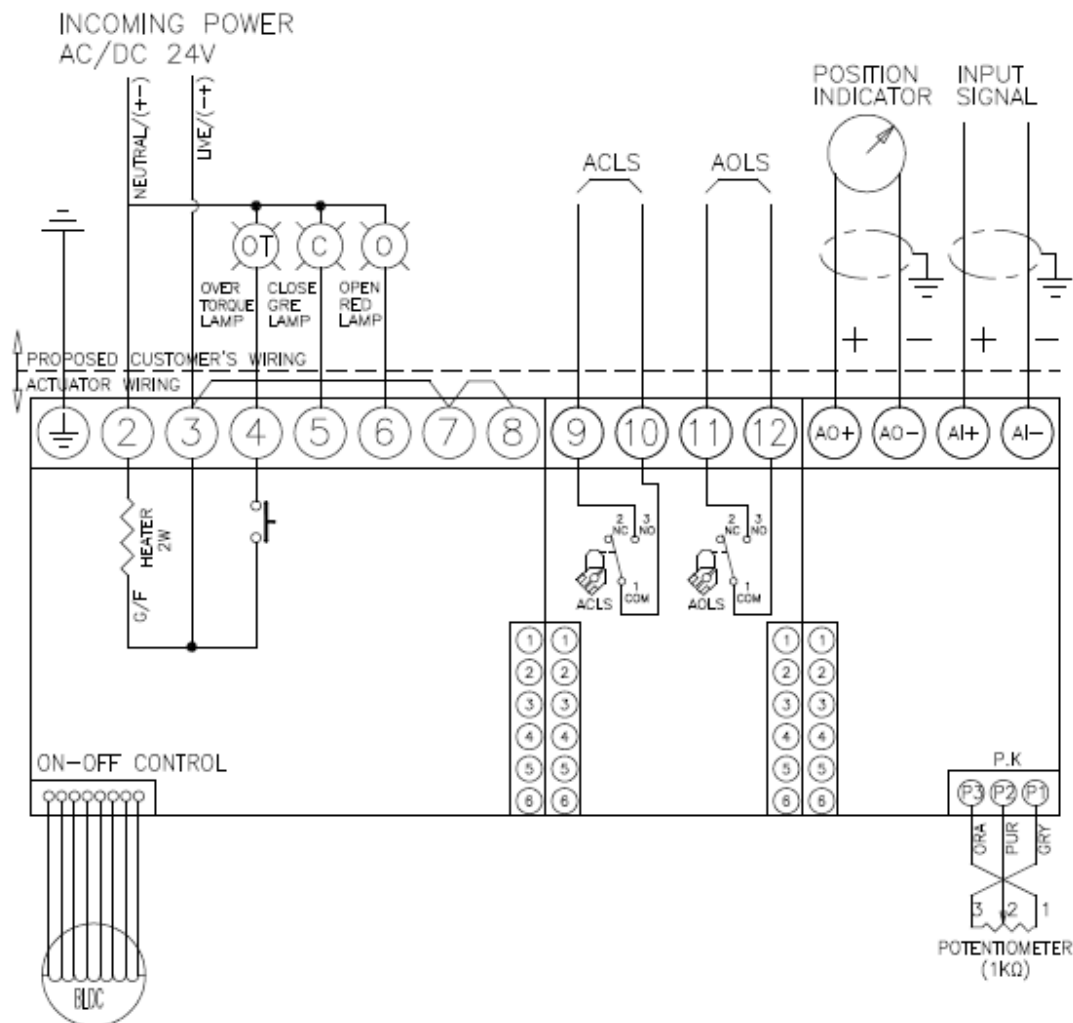
		 i-tork CONTROLS http://www.i-tork.com	DRAWN	DESIGN	CHECKED	APPROVER
			J.H.BAE			K.S.PARK2
		PART NAME	ISSU. DEPT.	DATE	STAGE	
		1PH WIRING DIAGRAM	ITCDR	2025.06.11	APPROVED	
		OPTION NAME	WIR No.			
ITX-0080		RPC	ITX0080-70500-A			
APP'L FILE						

ITX0080-90500-A [AC/DC 24V+RPC] , INCOMING POWER : AC/DC 24V ±10%

ITX ELECTRIC QUARTER TURN ACTUATOR

CLS : CLOSE LIMIT SWITCH (250VAC 3A)
 OLS : OPEN LIMIT SWITCH (250VAC 3A)
 ACLS: AUX. CLOSE LIMIT SWITCH (250VAC 3A)
 AOLS: AUX. OPEN LIMIT SWITCH (250VAC 3A)
 OTS : TORQUE RELAY SWITCH (250VAC 3A)
 *EACH ACTUATOR SHOULD BE POWERED THROUGH ITS OWN INDIVIDUAL SWITCH OR RELAY CONTACTS TO PREVENT CROSS FEED BETWEEN TWO OR MORE ACTUATORS.

LIMIT SWITCHES OPERATION		
SWITCH	CLOSE ←	INTERMEDIATE → OPEN
CLS 1-2		
CLS 1-3		
OLS 1-2		
OLS 1-3		
ACLS 1-3		
AOLS 1-3		



		 i-tork CONTROLS http://www.i-tork.com	DRAWN	DESIGN	CHECKED	APPROVER
			J.H.BAE			K.S.PARK2
		PART NAME	ISSU. DEPT.	DATE	STAGE	
		AC/DC 24V WIRING DIAGRAM	ITCDR	2025.06.11	APPROVED	
		OPTION NAME	WIR No.			
		RPC	ITX0080-90500-A			
ITX-0080						
APP'L FILE						