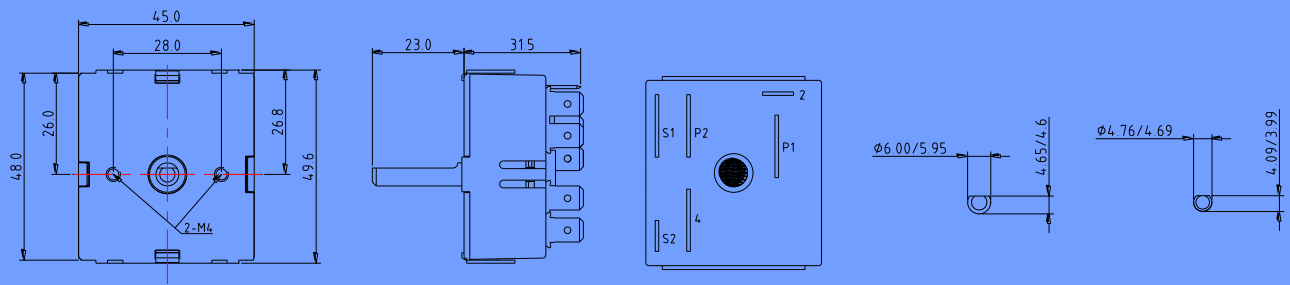
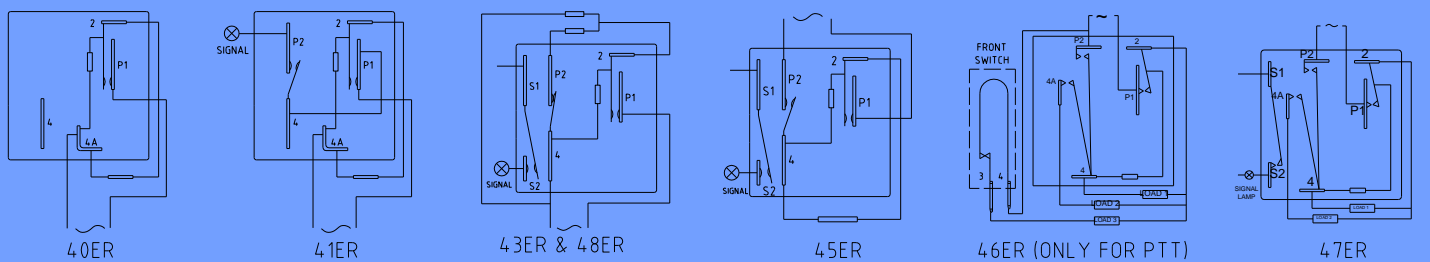


# 4\*ER SERIES

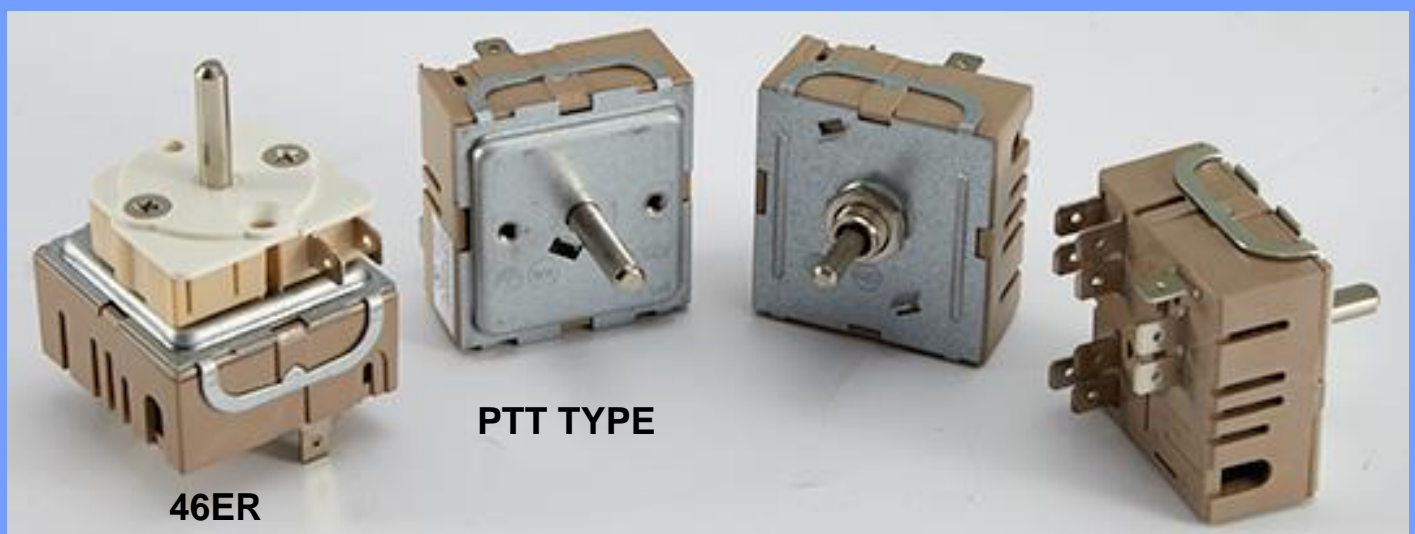
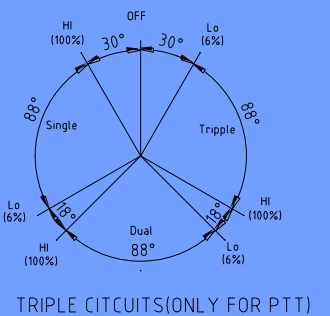
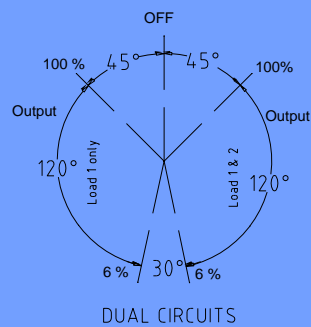
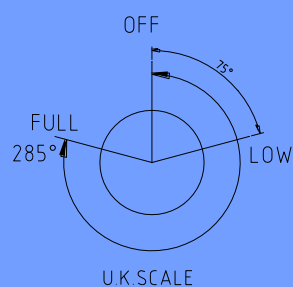
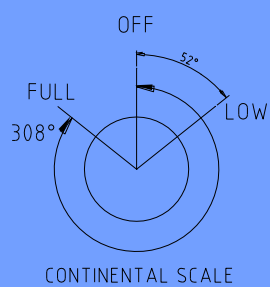
## Dimensions



## Wiring Diagrams



## Scale Ranges



# 4\*ER SERIES

## ENERGY REGULATORS

The 4\*ER Series low profile energy regulators have been designed to meet the demands of modern cooking appliances where controls compartment space is limited. These energy regulators are manufactured to a high performance specification with an ambient temperature rating of 125°C

**Approvals:** EN 60 730-2-1 & EN 60 730-2-11

- Types:**
- 40ER single pole
  - 41ER single pole with signal contacts
  - 42ER dual circuit single pole
  - 43ER dual circuit single pole with signal contacts
  - 44ER double pole
  - 45ER double pole with signal contacts
  - 47ER dual circuit latched double pole with/without signal contacts
  - 48ER dual circuit single pole with up-rated signal contacts
  - 49ER single pole with up-rated signal contacts

- Rating:**
- Thermal contacts P1-2:  
13.5A 240V AC MAX – Resistive 7A 400V AC MAX-  
Resistive tungsten halogen (ballast load)  
1960W 240V AC MAX
  - Signal contacts P2-4  
41ER Types: 0.1A 400V AC max – resistive  
49ER Types: 1A 400V AC 0.35PT
  - Signal contacts S1-S2  
45ER Types: 0.1A 400V AC max – resistive  
48ER Types: 1A 250V AC 0.35PT

- Features:**
- Temperature rating:  
125°C max continuous rating  
Controls are ambient compensated
  - Terminations: 6.3mm push-on type
  - Indexing: off position & full on position
  - Spindle: 6.0mm or 4.73mm diameter single D section
  - Plastic spindle – metal spindle available upon request

- Features:**
- Mounting: Two screw fixing-2XM4 screws at 28mm center- Max Screw insertion 5mm, or central bush fixing, m10 thread

- Characteristic:**
- **UK Scale:**  
Operating range: 75 ° to 285 ° clockwise  
Output: 6±3% at 75 °  
70±15% at 260 °  
100% at 285 °

- **Continental scale:**  
Operating range: 52 °-308 ° clockwise  
Output: 6±3 at 52 °  
60 + 15%- 20% at 258 °  
100% at 308 °

- Dual circuit scale:  
Operating range: 35 ° - 154 °  
Clockwise and anticlockwise  
Output: 7%±4% at 35 °  
70±15% at 125 °  
100% at 154 °

- Dual circuit latched:  
Operating range: 52 °-308 ° clockwise
- Double pole scale:  
Output: 6±3 at 52 °  
60 + 15%- 20% at 258 °  
100% at 308 °



# 4\*ER (UL) SERIES

## ENERGY REGULATORS

The 4\*ER (UL) Series low profile energy regulators have been designed to meet the demands of modern cooking appliances where controls compartment space is limited. These energy regulators are manufactured to a high performance specification with an ambient temperature rating of 125°C

**Approvals:** UL 60730-1 & CAN/CSA-E60730-1

UL 60730-2-11 & CAN/CSA- E730-2-11

- Types:**
- 40ER single pole
  - 41ER single pole with signal contacts
  - 42ER dual circuit single pole
  - 43ER dual circuit single pole with signal contacts
  - 44ER double pole
  - 45ER double pole with signal contacts
  - 46ER triple circuit (with front switch), triple pole, with/without signal contacts
  - 47ER dual circuit latched double pole with/without signal contacts
  - 48ER dual circuit single pole with up-rated signal contacts
  - 49ER single pole with up-rated signal contacts

- Rating:**
- Thermal contacts P1-2:  
16A 240V AC MAX – Resistive
  - Signal contacts P2-4  
41ER Types: 0.1A 240V AC max – resistive  
49ER Types: 1A 240V AC 0.35PT
  - Signal contacts S1-S2  
45ER Types: 0.1A 240V AC max – resistive  
48ER Types: 1A 240V AC 0.35PT

- Features:**
- Temperature rating:  
125°C max continuous rating  
Controls are ambient compensated
  - Terminations: 6.3mm push-on type
  - Indexing: off position & full on position
  - Spindle: 6.0mm or 4.73mm diameter single D section
  - If letter "T" present it indicates "push to turn" metal spindle

- Features:**
- Mounting: Two screw fixing-2xM4 screws at 28mm center- Max Screw insertion 5mm, or central bush fixing, m10 thread

- Characteristic:**
- **UK Scale:**  
Operating range: 75 ° to 285 ° clockwise  
Output: 6±3% at 75 °  
70±15% at 260 °  
100% at 285 °

- **Continental scale:**  
Operating range: 52 °-308 ° clockwise  
Output: 6±3 at 52 °  
60 + 15%- 20% at 258 °  
100% at 308 °

- Dual circuit scale:  
Operating range: 35 ° - 154 °  
Clockwise and anticlockwise  
Output: 7%±4% at 35 °  
70±15% at 125 °  
100% at 154 °
- Dual circuit latched:  
Operating range: 52 °-308 ° clockwise
- Double pole scale:  
Output: 6±3 at 52 °  
60 + 15%- 20% at 258 °  
100% at 308 °
- Dual circuits  
Output: 100% at 45° CW/CCW  
6±3% at 165° CW/CCW  
45~165 CCW single circuit,  
45-165 CW dual circuits

- Triple circuits  
Output: 6±3% at 30° & 136° & 242° CW  
100% at 118° & 224° & 330°  
30~118° single circuit  
136~224° dual circuits  
242~330° triple circuits

