STRONG ELECTRIC

INDUSTRIAL AUTOMATION EDITION

**2026 CATALOG**

MANUFACTURER · EST. 2005 · WORLDWIDE EXPORT

# PRODUCT SELECTION CATALOG

PID & Dial Temperature Controllers, Solid State Relays, SCR Power Modules, Industrial Sensors, Timers, Counters, Contactors, VFDs, Power Supplies, Protection & Safety Controls.



**REX-C100/C400/C700/C900**
PID Temperature Control




**SSR-DA / BSSR3**
Solid State & SCR Power



**DH48S / H3CR-A**
Digital & Analog Timers



**LC2-D / CJX2**
AC Contactors 9A–800A



**H710 / H350**
Variable Frequency Drives



**K / E / Pt100**
Industrial Thermocouples




**SEP / SEB Series**
Optical Rotary Encoders



**SCT / SCL Series**
Safety Light Curtains

**16**
Core Industrial Product Lines

**339**
Active Models in Selection

**3–5 Days**
Stock & Sample Dispatch

**OEM / ODM**
Private Label from 500 pcs

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# Industrial Control Chain & Contents

ONE INTEGRATED CONTROL CHAIN — FROM FIELD SENSOR TO POWER LOAD & PROTECTION

**01 · MEASURE**
### Sensors & Feedback
K/E thermocouples, Pt100 RTDs, NTC probes, rotary encoders & level electrodes.

**02 · REGULATE**
### Controllers & Timers
PID & dial temperature controllers, digital timers, counters & time switches.

**03 · SWITCH & DRIVE**
### SSRs, SCRs & Contactors
Single/3-phase SSRs, SCR power regulators, AC contactors, VFDs & power supplies.

**04 · PROTECT & MONITOR**
### Safety & Metering
Motor protection relays, safety light curtains, DC insulation monitors & battery gauges.


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## Why Panel Builders & Distributors Choose Strong Electric

### One PI for a whole cabinet
Controller, solid state relay, heat sink, sensor and counter on one invoice and in one carton — instead of five suppliers and five lead times that do not line up.

### Three years, replaced not repaired
A unit that fails inside the warranty is replaced from stock, so a line-down panel is not waiting on a repair queue.

### Stock dispatch in 3–5 days
The fast-moving models sit in Beijing, which is how a sample or a small order leaves in days rather than waiting out a factory run.

### Your logo from 500 pcs
Printed case, your packaging, your datasheet and your test report in ten working days, with the industry model kept on the side label.

# Temperature Controllers

PID temperature controller manufacturer for industrial ovens, dryers, packaging machines and plastic machinery, including blow molding machine heating controllers. Factory supply, OEM production, private label manufacturing and custom...

**50** MODELS

## REX-C100/C400/C700/C900 — SE-C100



| | |
|---|---|
| Series / Control | REX-C Series classic... |
| Panel / Cut-out | REX-C100 48×48; C400... |
| Input / Range | Universal input with K... |

## TC4 — SE-TC4



| | |
|---|---|
| Series / Control | TC4 Series (panel-mount... |
| Panel / Cut-out | 48×48 / 48×96 / 96×48 /... |
| Input / Range | Thermocouple K/J/E/T/N/S/R/... |

## TEL96-9001 — SE-TEL96-9001



| | |
|---|---|
| Series / Control | On/off control with 2°C... |
| Panel / Cut-out | 96×96mm (1/4 DIN) |
| Input / Range | K-type thermocouple |

## TC3-401T — SE-TC3-401T



| | |
|---|---|
| Series / Control | TC3 Series |
| Panel / Cut-out | TC3-401T 48×96; TC3-501T... |
| Input / Range | K Thermocouple |

## TCR — SE-TCR



| | |
|---|---|
| Series / Control | TC / TCR Series |
| Input / Range | K, E and J thermocouples... |
| Output | Relay contact, 250 VAC, 5... |

## XMTD — SE-XMTD



| | |
|---|---|
| Series / Control | XMTD Series |
| Panel / Cut-out | 68 × 68mm |
| Input / Range | K Type / E Type / PT100 /... |

## TC7 — SE-TC7



| | |
|---|---|
| Series / Control | TC7 Series (universal-input... |
| Panel / Cut-out | 48×48 / 48×96 / 72×72 /... |
| Input / Range | K, J, R, S, B, E, N, T... |

## C700 — SE-C700



| | |
|---|---|
| Series / Control | PID with auto-tuning, plus... |
| Panel / Cut-out | 72×72mm |
| Input / Range | K type or E type... |

## TC4H — SE-TC4H



| | |
|---|---|
| Series / Control | PID control and ON/OFF... |
| Panel / Cut-out | 48×96mm (1/8 DIN) |
| Input / Range | K, E, J, S, R, B, N, T... |

## TC4L — SE-TC4L



| | |
|---|---|
| Series / Control | PID control and ON/OFF... |
| Panel / Cut-out | 96×96mm (1/4 DIN) |
| Input / Range | K, E, J, S, R, B, N, T... |

## TC4W — SE-TC4W



| | |
|---|---|
| Series / Control | PID control and ON/OFF... |
| Panel / Cut-out | 96×48mm (1/8 DIN) |
| Input / Range | K, E, J, S, R, B, N, T... |

## TC4S — SE-TC4S



| | |
|---|---|
| Series / Control | PID control and ON/OFF... |
| Panel / Cut-out | 48×48mm (1/16 DIN) |
| Input / Range | K, E, J, S, R, B, N, T... |

## TC4M — SE-TC4M



| | |
|---|---|
| Series / Control | TC4 series — TC4S, TC4H... |
| Panel / Cut-out | 72×72mm |
| Input / Range | K, E, J, S, R, B, N, T... |

## TC5 — SE-TC5



| | |
|---|---|
| Series / Control | TC5 Series (panel-mount... |
| Panel / Cut-out | 48×48 / 48×96 / 96×48 /... |
| Input / Range | Thermocouple K/J/E/T/N/S/R/... |

## CH — SE-CH102



| | |
|---|---|
| Series / Control | CH (REX-CH) Series... |
| Panel / Cut-out | CH102 48×48; CH402 48×96... |
| Input / Range | Thermocouple K, J, R, S... |

## SCR-100 / ZKG-2000 — SE-100



| | |
|---|---|
| Series / Control | Digital SCR Voltage... |
| Panel / Cut-out | 48 × 48 mm (1/16 DIN) |
| Output | 1 V |

## THE-2000 — SE-THE2000



| | |
|---|---|
| Series / Control | THE-2000 / THF-2000 /... |
| Panel / Cut-out | THE 45 × 92, THF 92 × 45... |
| Input / Range | K thermocouple |

## TCN4 — SE-TCN4



| | |
|---|---|
| Series / Control | TCN4 Series |
| Panel / Cut-out | TCN4S 48×48; TCN4M 72×72... |
| Input / Range | K, J, S, R, E thermocouple... |

### Panel PID & DIN Sizes

Standard 48×48 (1/16 DIN), 48×96 / 96×48 (1/8 DIN), 72×72, and 96×96 mm (1/4 DIN) cut-outs with relay, SSR drive, or 4–20 mA control.

### DIN Rail, Dial & Economy

35 mm DIN-rail modules (TH4M, TK6D, TK6Z) plus thumbwheel & rotary-dial ON/OFF controllers (XMTG, XMTD, TEL96, TC7, TCR).

### Temp + Timer, SCR & Humidity

Combined dwell-timer controllers for heat presses & ovens (TC3, TS400–TS800, THE-2000), SCR-100 regulators, NTC thermostats & WSK-Z/WK-P.

## Selection Matrix — Temperature Controllers (Part 1 of 2)

| Model / SKU | Series / Control | Panel / Cut-out | Input / Range | Output | Supply / Accuracy |
|---|---|---|---|---|---|
| **REX-C100/C400/C700/C900**<br>SE-C100 | REX-C Series classic... | REX-C100 48×48; C400 48×96; C410... | Universal input with K type fitted as... | M relay 250VAC 3A; V SSR drive... | ±0.5%FS or ±1.0%FS |
| **TC4**<br>SE-TC4 | TC4 Series (panel-mount PID... | 48×48 / 48×96 / 96×48 / 72×72 /... | Thermocouple K/J/E/T/N/S/R/B; RTD Pt100... | Relay + SSR drive (W), voltage output... | ±0.5% FS |
| **TEL96-9001**<br>SE-TEL96-9001 | On/off control with 2°C hysteresis | 96×96mm (1/4 DIN) | K-type thermocouple | Relay output, passive contact | 220 V or 380 V two-wire, plus a... |
| **TC3-401T**<br>SE-TC3-401T | TC3 Series | TC3-401T 48×96; TC3-501T 96×48... | K Thermocouple | 1°C | AC100–240V |
| **TCR**<br>SE-TCR | TC / TCR Series | — | K, E and J thermocouples; PT100 and Cu50... | Relay contact, 250 VAC, 5 A, 1 NO / 1 NC | 100–240 VAC |
| **XMTD**<br>SE-XMTD | XMTD Series | 68 × 68mm | K Type / E Type / PT100 / Cu50 | Relay output, a dry (voltage-free)... | 220 VAC 50/60 Hz as standard... |
| **TC7**<br>SE-TC7 | TC7 Series (universal-input... | 48×48 / 48×96 / 72×72 / 96×96 /... | K, J, R, S, B, E, N, T thermocouple... | Relay plus 12VDC SSR drive on every... | ±0.5°C |
| **C700**<br>SE-C700 | PID with auto-tuning, plus ON/OFF... | 72×72mm | K type or E type thermocouple, fixed at... | relay contact or SSR drive | ±0.5%FS |
| **TC4H**<br>SE-TC4H | PID control and ON/OFF... | 48×96mm (1/8 DIN) | K, E, J, S, R, B, N, T thermocouples... | Dual output, relay contact plus SSR... | 220VAC, 50/60Hz |
| **TC4L**<br>SE-TC4L | PID control and ON/OFF... | 96×96mm (1/4 DIN) | K, E, J, S, R, B, N, T thermocouples... | Dual output, relay contact plus SSR... | 220VAC, 50/60Hz |
| **TC4W**<br>SE-TC4W | PID control and ON/OFF... | 96×48mm (1/8 DIN) | K, E, J, S, R, B, N, T thermocouples... | Relay contact or SSR drive, plus... | 220VAC, 50/60Hz |
| **TC4S**<br>SE-TC4S | PID control and ON/OFF... | 48×48mm (1/16 DIN) | K, E, J, S, R, B, N, T thermocouples... | Relay contact or SSR drive, plus... | 220VAC, 50/60Hz |
| **TC4M**<br>SE-TC4M | TC4 series — TC4S, TC4H, TC4W... | 72×72mm | K, E, J, S, R, B, N, T thermocouples... | Dual output: relay or SSR drive, plus... | 220VAC, 50/60Hz |
| **TC5**<br>SE-TC5 | TC5 Series (panel-mount PID... | 48×48 / 48×96 / 96×48 / 72×72 /... | Thermocouple K/J/E/T/N/S/R/B; RTD Pt100... | Relay + SSR drive (W), voltage output... | ±0.5%FS or ±1.0%FS |
| **CH**<br>SE-CH102 | CH (REX-CH) Series short-body PID... | CH102 48×48; CH402 48×96; CH502... | Thermocouple K, J, R, S, B, E, N, T and... | N none; M relay contact; V SSR drive... | ±0.5%FS or ±1.0%FS |
| **SCR-100 / ZKG-2000**<br>SE-100 | Digital SCR Voltage Regulator | 48 × 48 mm (1/16 DIN) | — | 1 V | 220 VAC ±15%, 50/60 Hz |
| **THE-2000**<br>SE-THE2000 | THE-2000 / THF-2000 / THD-2000 | THE 45 × 92, THF 92 × 45, THD 68 ×... | K thermocouple | Relay output, or solid state relay drive | 85–265VAC, 50/60Hz |
| **TCN4**<br>SE-TCN4 | TCN4 Series | TCN4S 48×48; TCN4M 72×72; TCN4H... | K, J, S, R, E thermocouple; PT100 and... | 220V 5A | 100–240VAC, 50/60Hz; shipped at... |
| **TC7-D / TC7-R**<br>SE-TC7-D | TC7-D / TC7-R Series (dial-set... | 48×48 / 48×96 / 72×72 / 96×96mm | K thermocouple as standard; E, J, Pt100... | Relay only | ±1°C |
| **BT-72BD / BT-96BD / BT-72VD / BT-96VD**<br>SE-BD-VD | BT-72BD / BT-96BD / BT-72VD /... | 72×72 / 96×96mm | K thermocouple as standard; E and Pt100... | Relay only | ±1°C |
| **TH4M**<br>SE-TH4M | TH4M Series (four-channel DIN-rail... | DIN35 rail; wall mounting is also... | Thermocouple K, J, E, N, B, R, S, T; RTD... | Relay, SSR drive, 4–20mA, 0–5V or... | 0.5 class |
| **TK6D**<br>SE-TK6D | TK6D Series (single-loop DIN-rail... | 35mm DIN rail, clip-on, no panel... | Thermocouple K, J, E, S, R; RTD Pt100... | Relay contact plus an SSR drive output... | ±0.5°C |
| **TK6Z**<br>SE-TK6Z | TK6Z Series (single-loop DIN-rail... | 35mm DIN rail, clip-on, no panel... | Thermocouple K, E, J, R, S, B, T; RTD... | Relay and SSR drive together (code... | ±0.5°C |
| **TK6**<br>SE-TK6 | TK6 Series (panel-mount and... | 48×48 / 72×72 / 48×96 / 96×96mm on... | Thermocouple and RTD input; confirm the... | Relay output + SSR drive output (code... | ±0.5°C |
| **BT6**<br>SE-BT6 | BT6 Series (panel-mount PID... | 48×48 / 48×96 / 72×72 / 96×96mm | Thermocouple K, J, R, S, B, E, N, T; RTD... | Relay, logic-level SSR drive, 4–20mA... | ±0.5 °C |

## Selection Matrix — Temperature Controllers (Part 2 of 2)

| Model / SKU | Series / Control | Panel / Cut-out | Input / Range | Output | Supply / Accuracy |
|---|---|---|---|---|---|
| **KT**<br>SE-KT | KT series LCD temperature controller | 48×48×64, 48×96×64, 72×72×64 and... | thermocouple K, E, J, S, R, B, N or T on... | relay contact 250 V 3 A, or SSR drive | 100–240 VAC |
| **TEL72-9001T**<br>SE-TEL72-9001T | TEL72 Series | 72×72mm | K-type thermocouple | Relay output, position control | 220VAC, 380VAC 50/60Hz versions |
| **XMTG-2001 / XMTG-2002**<br>SE-XMTG-2001 | XMTG Series | 48×48mm (1/16 DIN) | 0–399°C on K, E, Pt100 and Cu50... | Relay contact, NO / NC | 220VAC 50/60Hz |
| **EW-181H**<br>SE-EW-181 | Microcomputer temperature... | Snap-in panel mounting with side clips | -40 to 80°C | 10A / 220VAC relay | 100–240VAC 50/60Hz |
| **TS400**<br>SE-TS400 | TS400 Series (temperature, time... | 48×96mm (1/8 DIN) | Thermocouple and RTD; confirm the input... | 30A relay, or SSR drive at 12VDC for... | ±1°C |
| **TS600**<br>SE-TS600 | TS600 Series (touch-screen... | 72×72mm | Thermocouple and RTD; confirm the input... | 10A relay, or SSR drive for an... | ±1°C |
| **TS700**<br>SE-TS700 | TS700 (temperature, time and count... | 72×72mm | Thermocouple; K as standard. Confirm the... | Built-in 30A relay for direct heater... | ±1°C |
| **TS700-X**<br>SE-TS700-X | Temperature control with a... | 72×72mm | 0–999°C | Relay output | ±1°C |
| **TS800**<br>SE-TS800 | TS800 (LCD touch-screen... | Panel mount, flush bezel | Thermocouple; K as standard, E available... | Built-in 30A relay for direct heater... | ±1°C |
| **XMTA-MS**<br>SE-XMTA-MS | The square XMTA version: K, E, J... | 96 × 96 × 64 mm, letter XMTA of the... | K, E, J, Pt100 or Cu50, as printed on... | Relay 250 V 5 A on 12-14, plus a 12 V... | 220 VAC 50/60 Hz |
| **XMTD-MS**<br>SE-XMTD-MS | The square member of the XMT MS... | 72 × 72 × 64 mm, letter XMTD of the... | K, E, J, Pt100 or Cu50, as printed on... | SSR drive, 12 V DC 20 mA, on 10-11 | 220 VAC 50/60 Hz |
| **XMTE-MS**<br>SE-XMTE-MS | The portrait member of the XMT MS... | 48 × 96 × 64 mm, letter XMTE of the... | K, E, J, Pt100 or Cu50, as printed on... | Relay 250 V 5 A plus a 12 V DC 20 mA... | 220 VAC 50/60 Hz |
| **XMTG-MS**<br>SE-XMTG-MS | A 48 × 48 panel digital controller... | 48 × 48 × 64 mm, letter XMTG of the... | K, E, J, Pt100 or Cu50, as printed on... | Relay 250 V 5 A plus an SSR drive output | 24–240 VAC 50/60 Hz, one build |
| **XMT-MS**<br>SE-XMT-MS | XMT M / MS single-display... | 48×48, 48×96, 72×72 and 96×96 | 0–400 °C | — | 220 VAC or 380 VAC |
| **E5C2 / E5C4**<br>SE-E5C2 | E5C2 / E5C4 Series (analogue-set... | 48×48mm (1/16 DIN) | K thermocouple as standard; Pt100 on the... | Relay only | ±1°C |
| **E5EN / E5EM**<br>SE-E5EN | E5EN / E5EM Series (panel-mount... | 48×96mm (1/8 DIN) | K thermocouple | Relay contact | ±1°C |
| **96 Series**<br>SE-TC-96X96 | 96 Series (96mm square-bezel... | 96×96mm (1/4 DIN) | K and E thermocouple | Relay contact | 220VAC, 50/60Hz |
| **WK-P(TH) / WSK-P(TH)**<br>SE-WK-P | one-knob switching control... | 48×48mm (1/16 DIN) | −30...70 °C | relay output, live 220VAC | 220VAC, 50/60Hz |
| **WSK-Z**<br>SE-WSK-Z | WSK-Z — temperature and humidity... | 48×48mm (WSK-ZG) / 72×72mm (WSK-ZD) | 0–99.9°C, with a sensor housing that... | One relay for temperature and one for... | ±0.5°C / ±3%RH, resolution 0.1°C... |
| **CD**<br>SE-CD | CD series panel-mount PID... | 48×48×82, 48×96×75, 72×72×73 and... | Thermocouple K, J, R, S, B, E, N, T and... | relay contact, SSR drive or 4–20 mA... | 100–240 VAC, 220 V nominal |
| **XMT-6311**<br>SE-XMT-6311 | XMT-6000 series panel temperature... | 48×48×65, 48×96×65, 72×72×65 and... | thermocouple (K or E) on the 1 builds... | relay contact 250 V 3 A, or SSR drive | 220 VAC, 50/60 Hz |
| **XMT-8411**<br>SE-XMT-8411 | XMT-8000 series panel PID... | 48×48×65, 48×96×65, 72×72×65 and... | K, E, J, S, R, B, N and T thermocouples... | relay contact 250 V 3 A, SSR drive... | 100–240 VAC, 50/60 Hz |
| **TED-2001**<br>SE-TED-TEA | TED / TEA pointer temperature... | TED 72×72, TEA 96×96 | K or E thermocouple | relay output, dry contact | 220 VAC, 50/60 Hz, with a 380... |
| **CHB**<br>SE-CHB | CHB series PID temperature... | 48×48×82, 48×96×75, 72×72×73 and... | K, E, J, S, R, B, N and T thermocouples... | two outputs on one instrument: a relay... | 220 VAC, 50/60 Hz, with a 380 V... |
| **XMT-1000**<br>SE-XMT-1000 | XMT-1000, thumbwheel setpoint | 48×48×82, 48×96×107, 72×72×65 and... | K or E thermocouple | Relay output, a dry (voltage-free)... | 220 VAC 50/60 Hz |

# Solid State Relays & SCR Power Modules

Manufacturer of solid state relays and SCR power modules: switching SSRs, integrated SCR voltage regulator modules, pulse-triggered SCR power modules and matched SSR heat sinks for industrial heating control. OEM manufacturing, custom...

**18** MODELS

## SSR-DA — SE-DA



| | |
|---|---|
| Control / Material | 3–32VDC |
| Load Voltage / Profile | 24–380VAC |
| Current / Profiles | 10A, 25A, 30A, 40A, 50A... |

## BSSR3 — SE-BSSR3



| | |
|---|---|
| Control / Material | 3–32VDC |
| Load Voltage / Profile | 24–480VAC |
| Current / Profiles | 10A, 25A, 40A, 50A, 60A... |

## TSR — SE-TSR



| | |
|---|---|
| Control / Material | 4–32VDC |
| Load Voltage / Profile | 24–380VAC |
| Current / Profiles | 10A, 25A, 40A, 50A, 60A... |

## SSR3 — SE-SSR3



| | |
|---|---|
| Control / Material | 3–32VDC |
| Load Voltage / Profile | 24–480VAC |
| Current / Profiles | 10A, 25A, 40A, 50A, 60A... |

## BDTY — SE-BDTY



| | |
|---|---|
| Control / Material | 4–20 mA / 0–10 V / COM /... |
| Load Voltage / Profile | 0–220 VAC / 0–380 VAC |
| Current / Profiles | 10A, 25A, 40A, 60A, 80A... |

## BSTY — SE-BSTY



| | |
|---|---|
| Control / Material | 1–5V, 2–10V, 4–20mA |
| Load Voltage / Profile | 3-Phase 380VAC ±5% |
| Current / Profiles | 150A / 200A / 300A / 350A... |

## SE-TM4 — SE-TM4




| | |
|---|---|
| Load Voltage / Profile | 380VAC |
| Current / Profiles | 25A–200A |
| Key Spec / Mounting | -20–40°C |

## M1DK — SE-M1DK



| | |
|---|---|
| Control / Material | G1 / T1 |
| Load Voltage / Profile | 24–250VAC / 250VAC |
| Current / Profiles | 25A / 40A / 60A / 80A / 100A |

## SCR3L — SE-SCR3L



| | |
|---|---|
| Load Voltage / Profile | 3-Phase 380VAC, four-wire |
| Current / Profiles | 60A / 100A / 200A |
| Key Spec / Mounting | 92mm width, 147.6mm height |

## Complete Selection Matrix — Solid State Relays & SCR Power Modules (18 Models)

| Model / SKU | Control / Material | Load Voltage / Profile | Current / Profiles | Key Spec / Mounting |
|---|---|---|---|---|
| **SSR-DA**<br>SE-DA | 3–32VDC | 24–380VAC | 10A, 25A, 30A, 40A, 50A, 60A, 75A... | −30°C to +75°C |
| **BSSR3**<br>SE-BSSR3 | 3–32VDC | 24–480VAC | 10A, 25A, 40A, 50A, 60A, 75A, 80A... | −30°C to +75°C |
| **TSR**<br>SE-TSR | 4–32VDC | 24–380VAC | 10A, 25A, 40A, 50A, 60A, 75A, 80A... | −30°C to +75°C |
| **SSR-DA**<br>SE-SSR-DA | 3–32VDC | 24–480VAC | 10A, 25A, 40A, 50A, 60A, 75A, 80A... | −30°C to +75°C |
| **BSSR3-80DA**<br>SE-BSSR3-80DA | 3–32VDC | 24–480VAC | 80A | −30°C to +75°C |
| **BSSR-DA**<br>SE-BSSR-DA | 3–32VDC | 24–480VAC | 10A, 25A, 40A, 50A, 60A, 75A, 80A... | −30°C to +75°C |
| **BSSR-40DA**<br>SE-BSSR-40DA | 3–32VDC | 24–480VAC | 40A | −30°C to +75°C |
| **SSR3**<br>SE-SSR3 | 3–32VDC | 24–480VAC | 10A, 25A, 40A, 50A, 60A, 75A, 80A... | −30°C to +75°C |
| **BSSRD**<br>SE-SSR-DIN | 3–32 VDC | 24–480 VAC | 10A, 25A, 40A, 60A, 80A, 100A, 120A | −30°C to +75°C |
| **SSR-LA**<br>SE-LA | 4–20mA | 0–250VAC | 10A, 25A, 40A, 50A, 60A, 75A, 80A... | −30°C to +75°C |
| **SSR Heat Sink**<br>SE-HS-SSR | Extruded aluminium alloy | Multi-fin extrusion with a flat... | Six — four single-phase, two... | Single-phase panel-mount SSRs fix on 48mm... |
| **BDTY**<br>SE-BDTY | 4–20 mA / 0–10 V / COM / 1–5 V /... | 0–220 VAC / 0–380 VAC | 10A, 25A, 40A, 60A, 80A, 100A, 120A... | 104 × 74 × 34 mm |
| **BSTY**<br>SE-BSTY | 1–5V, 2–10V, 4–20mA | 3-Phase 380VAC ±5% | 150A / 200A / 300A / 350A / 400A /... | Three-phase resistive load |
| **SE-TM4**<br>SE-TM4 | SE-TM4 three-phase SCR power... | 380VAC | 25A–200A | -20–40°C |
| **M1DK**<br>SE-M1DK | G1 / T1 | 24–250VAC / 250VAC | 25A / 40A / 60A / 80A / 100A | Heating Equipment, Ovens, Heating Plates... |
| **M1DK-80DA**<br>SE-M1DK-80DA | G1 / T1 | 220 VAC | 80A | Heating Equipment, Ovens, Heating Plates... |
| **SCR3L**<br>SE-SCR3L | SCR3L three-phase SCR regulator... | 3-Phase 380VAC, four-wire | 60A / 100A / 200A | 92mm width, 147.6mm height |
| **SCR-100 / SCR-700**<br>SE-100-700 | Panel voltage regulators with a... | 0–220 VAC, regulated across the... | SCR-100, also supplied as ZKG-2000... | 48×48 on the SCR-100, 72×72 on the SCR-700 |

# Thermocouples & RTD Sensors

Thermocouple and RTD sensor manufacturer producing K type thermocouples, Pt100 probes and custom-length sensors for ovens, dryers, molds and industrial heating equipment. OEM production and factory pricing.

9 MODELS

## K/E Probe — SE-TC-KE



| | |
|---|---|
| Element | K or E type thermocouple... |
| Temp. Range | 0–400°C |
| Probe / Thread | Ø5mm |

## M6/M8 — SE-TC-M6M8



| | |
|---|---|
| Element | K type thermocouple / E... |
| Temp. Range | 0–800°C |
| Probe / Thread | M6 × 1.0 metric fine / M6... |

## M12 Spring-Loaded — SE-TC-M12



| | |
|---|---|
| Element | K type (0–600°C), E type... |
| Probe / Thread | M12 × 1.5 standard; M8 ×... |
| Termination & Lead | U-type fork terminals |

## 4 × 40 — SE-TC-4X40



| | |
|---|---|
| Element | K, E, Pt100 or Cu50 |
| Temp. Range | 0–400 °C |
| Probe / Thread | 4 × 40 mm stainless probe... |

## WRNK-236 / WZP-236 — SE-TC-WRNK236



| | |
|---|---|
| Element | K type as standard; S, E... |
| Temp. Range | 0–800 °C |
| Probe / Thread | 6mm as standard |

## MGB NTC probe — SE-NTC-PROBE



| | |
|---|---|
| Element | NTC thermistor, glass-coate... |
| Temp. Range | -20 to 90°C on the lead... |
| Probe / Thread | Stainless steel, Ø5mm ×... |

## Complete Selection Matrix — Thermocouples & RTD Sensors (9 Models)

| Model / SKU | Element | Temp. Range | Probe / Thread | Termination & Lead |
|---|---|---|---|---|
| **K/E Probe** SE-TC-KE | K or E type thermocouple, or... | 0–400°C | Ø5mm | 4mm U-type fork terminals, red positive and... |
| **M6/M8** SE-TC-M6M8 | K type thermocouple / E type... | 0–800°C | M6 × 1.0 metric fine / M6 × 1.25... | 4mm U-type crimped fork terminals, red on +... |
| **M12 Spring-Loaded** SE-TC-M12 | K type (0–600°C), E type... | — | M12 × 1.5 standard; M8 × 1.0, M8 × 1.25... | U-type fork terminals |
| **4 × 40** SE-TC-4X40 | K, E, Pt100 or Cu50 | 0–400 °C | 4 × 40 mm stainless probe, diameter ×... | 4mm U-type fork terminals, red on + and blue... |
| **WRNK-236 / WZP-236** SE-TC-WRNK236 | K type as standard; S, E, J, T... | 0–800 °C | 6mm as standard | — |
| **MGB NTC probe** SE-NTC-PROBE | NTC thermistor, glass-coated... | -20 to 90°C on the lead... | Stainless steel, Ø5mm × 40mm, other... | Tinned lead ends as standard; XH-2P plug... |
| **Probe-Type** SE-TC-SS | K or E type thermocouple, or... | 0–400°C | M12 × 1.5 as standard; say so if the... | U-type fork terminals — two-wire on K and E... |
| **Ø8 Threaded Probe** SE-TC-THREADED | K type as standard; E type to... | 0–400°C | Fixed external thread with a hex nut... | Insulated fork terminals, blue and red |
| **Patch-type K / E / Pt100** SE-TC-RING | K or E thermocouple, or Pt100 RTD | 0–400°C (listing figure; the... | — | Bare tails as standard; connector to order |

## Timer Relays

Choose by how the timer sits in the panel and what it has to switch. The digital versions set the time in hours, minutes and seconds: DH48S and its cycle version DH48S-S in the 48 mm body, JSS20-48AMS and ZN48S beside them, H3CA-8 and...

**34** MODELS

### DH48S — SE-DH48S



| | |
|---|---|
| Body / Cut-out | 45×45mm |
| Mounting | 48×48mm panel cut-out or... |
| Supply Voltage | AC 36 / 110 / 220 / 380V... |

### JSS20-48AMS — SE-JSS20-48AMS



| | |
|---|---|
| Body / Cut-out | 48 × 48 × 115 mm (1/16 DIN... |
| Mounting | Panel front, surface, or... |
| Supply Voltage | AC12–380 V or DC12–24 V |

### ZN48S — SE-ZN48S



| | |
|---|---|
| Body / Cut-out | 48 × 48 × 115 mm (1/16 DIN... |
| Mounting | Panel front, surface, or... |
| Supply Voltage | AC12–380 V or DC12–24 V |

### JSZ3P-R — SE-JSZ3P-R



| | |
|---|---|
| Body / Cut-out | 50 × 40 × 76 mm |
| Mounting | Surface, panel or 35 mm... |
| Supply Voltage | AC12–380 V or DC12–24 V |

### H3CA-8 — SE-H3CA-8



| | |
|---|---|
| Body / Cut-out | 48 × 48 × 115 mm (1/16 DIN... |
| Mounting | Panel front, surface, or... |
| Supply Voltage | AC12–380 V or DC12–24 V |

### ASY-3D — SE-ASY-3D



| | |
|---|---|
| Body / Cut-out | 88 × 58 × 94 mm |
| Mounting | Panel front, surface, or... |
| Supply Voltage | AC12–380 V or DC12–24 V |

### JS72S — SE-JS72S



| | |
|---|---|
| Body / Cut-out | 72 × 72 × 125 mm (front 72... |
| Mounting | Panel front |
| Supply Voltage | AC 24, 36, 110, 220 or 380... |

### ST3P-R — SE-ST3P-R



| | |
|---|---|
| Body / Cut-out | 55 × 41 × 84 mm |
| Mounting | Surface, panel or 35 mm... |
| Supply Voltage | AC12–380 V or DC12–24 V |

### ST5P — SE-ST5P



| | |
|---|---|
| Body / Cut-out | 50 × 40 × 76 mm |
| Mounting | Surface, panel or 35 mm... |
| Supply Voltage | AC12–380 V or DC12–24 V |

## Selection Matrix — Timer Relays (Part 1 of 2)

| Model / SKU | Body / Cut-out | Mounting | Supply Voltage | Contact Rating | Mode / Delay Range |
|---|---|---|---|---|---|
| **DH48S** SE-DH48S | 45×45mm | 48×48mm panel cut-out or 35mm... | AC 36 / 110 / 220 / 380V, DC 12... | 3 A at 250 V AC; 5 A at 28 V DC... | 0.1s–99h59m (DH48S-S) / 0.01s–99h99m... |
| **DH48S-S** SE-DH48S-S | 48 × 48 × 115 mm (1/16 DIN front) | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | Cycle, repeating |
| **JSS20-48AMS** SE-JSS20-48AMS | 48 × 48 × 115 mm (1/16 DIN front) | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **ZN48S** SE-ZN48S | 48 × 48 × 115 mm (1/16 DIN front) | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **JSZ3P-R** SE-JSZ3P-R | 50 × 40 × 76 mm | Surface, panel or 35 mm rail... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | Cycle, repeating |
| **H3CA-8** SE-H3CA-8 | 48 × 48 × 115 mm (1/16 DIN front) | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **H3CA-A** SE-H3CA-A | 48 × 48 × 115 mm (1/16 DIN front) | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **ASY-3D** SE-ASY-3D | 88 × 58 × 94 mm | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay; mode A on-delay, mode B... |
| **ASY-3SM** SE-ASY-3SM | 88 × 58 × 94 mm | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay; mode A on-delay, mode B... |
| **JS72S** SE-JS72S | 72 × 72 × 125 mm (front 72 × 72... | Panel front | AC 24, 36, 110, 220 or 380 V... | AC 250 V 3 A resistive; DC 28 V 5 A | On-delay, with pause and reset |
| **ST3P-R** SE-ST3P-R | 55 × 41 × 84 mm | Surface, panel or 35 mm rail... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | Cycle, repeating |
| **ST5P** SE-ST5P | 50 × 40 × 76 mm | Surface, panel or 35 mm rail... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **ST3PA** SE-ST3PA | 55 × 41 × 84 mm | Surface, panel or 35 mm rail... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | ST3PA on-delay; ST3PC on-delay with... |
| **H3Y-2** SE-H3Y-2 | 28 × 21 × 64 mm | Surface, panel or 35 mm rail... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | H3Y-2 two delayed relay contacts; H3Y-4... |
| **AH3-1** SE-AH3-1 | 40 × 50 × 83 mm | Panel front, surface or 35 mm... | 110, 220 or 380 VAC 50/60 Hz; 12... | 5 A at AC 250 V; 5 A at DC 28 V | — |
| **AH3-A...E** SE-AH3 | 49 × 39 × 57.5 mm | Surface (N) on socket PF-085A... | AC 12, 24, 110, 220, 240, 380... | 5 A at AC 250 V resistive; delayed... | Mode A or mode B, set on the face: mode... |
| **AH3-DM** SE-AH3-DM | 49 × 39 × 57.5 mm | Surface (N) on socket PF-085A... | AC 12, 24, 110, 220, 240, 380... | 5 A at AC 250 V resistive on all... | On-delay; mode A on-delay, mode B... |
| **ATDV-NA** SE-ATDV-NA | 78 × 50 × 92 mm | Surface | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | Cycle, repeating |
| **ATDV-Y** SE-ATDV-Y | 87 × 57 × 92 mm | Panel front | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | Cycle, repeating |
| **H3CR-A** SE-H3CR-A | 48 × 48 × 86 mm (1/16 DIN front) | Panel, din rail | 100-240 V AC, 24 V AC/DC, 12 V... | AC 250 V, 3 A resistive | On-delay |
| **H3BA-N** SE-H3BA-N | 48 × 48 × 115 mm (1/16 DIN front) | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **H3BA-8** SE-H3BA-8 | 48 × 48 × 115 mm (1/16 DIN front) | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |

## Selection Matrix — Timer Relays (Part 2 of 2)

| Model / SKU | Body / Cut-out | Mounting | Supply Voltage | Contact Rating | Mode / Delay Range |
|---|---|---|---|---|---|
| **H3BA-N8** SE-H3BA-N8 | 48 × 48 × 115 mm (1/16 DIN front) | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **AH5B** SE-AH5B | 48 × 48 × 100 mm (1/16 DIN front) | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay; mode A on-delay, mode B... |
| **JS14S** SE-JS14S | 104 × 52 × 115 mm | Panel front | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **JS14P** SE-JS14P | 84 × 45 × 112 mm | Panel front, surface, or 35 mm... | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **JS11S** SE-JS11S | 95 × 95 × 122 mm | Panel front | AC12–380 V or DC12–24 V | AC 250 V, 3 A resistive | On-delay |
| **ST3PC** SE-ST3PC | 55 × 41 × 84 mm | Panel or DIN rail, with the... | 12, 24, 36, 48, 110, 220 or 380... | AC 250 V, 3 A; DC 28 V, 5 A | On-delay, with one instantaneous contact |
| **ST3PF** SE-ST3PF | 55 × 41 × 84 mm | Panel or DIN rail, with the... | 12, 24, 36, 48, 110, 220 or 380... | AC 250 V, 3 A; DC 28 V, 5 A | Off-delay |
| **AH2** SE-AH2 | Socket case, 61 × 50 mm cut-out | N builds are the exposed type... | 110, 220 or 380 V AC 50/60 Hz... | AC 250 V, 3 A; DC 28 V, 5 A | On-delay |
| **ASTP** SE-ASTP | N: 80 × 49 mm, 62 mm deep; Y: 88... | N builds are the exposed type... | 12, 24, 110, 220 or 240 V AC... | AC 250 V, 5 A; DC 28 V, 5 A | On-delay |
| **JS11J** SE-JS11J | 122 × 97 × 97 mm | Panel | 12, 24, 36, 48, 110, 220 or 380... | AC 250 V, 5 A; DC 28 V, 5 A | On-delay |
| **JS14A** SE-JS14A | 81 × 45 mm | Panel; JS14A-Y takes an external... | 12, 24, 36, 48, 110, 220 or 380... | AC 250 V, 3 A; DC 28 V, 5 A | On-delay |
| **ASY-2D** SE-ASY-2D | 90 × 58 × 88 mm | PF083A | 12, 24, 36, 48, 110, 220 or 380... | AC 250 V, 5 A; DC 28 V, 5 A | On-delay |

## Time Switches

These switch a load on a clock rather than after a delay. The rail bodies (KG316T, KG316S, SUL181, TB188) carry a day or a week programme with a cell behind it and switch the load directly; the panel ones (CN101A, TM618) do the same job…

**16** MODELS

### TM618 / TM619-2 — SE-TM618



| | |
|---|---|
| Mounting / Display | 61 × 61 mm |
| Contact / Setting | Resistive, 16 A |
| Programme / Range | 16 on and 16 off operations |

### SUL180A / SUL160A — SE-SUL180A



| | |
|---|---|
| Supply / Keys | 110 V AC or 220–240 V AC… |
| Contact / Setting | 220 V AC, 16 (4) A |
| Programme / Range | 24 hours |

### KG316S — SE-KG316S



| | |
|---|---|
| Mounting / Display | 98 × 55 × 42 mm |
| Supply / Keys | −20 °C to 60 °C |
| Contact / Setting | Resistive, 25 A |

## Complete Selection Matrix — Time Switches (16 Models)

| Model / SKU | Mounting / Display | Supply / Keys | Contact / Setting | Programme / Range |
|---|---|---|---|---|
| **TM618 / TM619-2** SE-TM618 | 61 × 61 mm | — | Resistive, 16 A | 16 on and 16 off operations |
| **SUL180A / SUL160A** SE-SUL180A | Rail-mounted 24-hour mechanical… | 110 V AC or 220–240 V AC, 50/60… | 220 V AC, 16 (4) A | 24 hours |
| **KG316S** SE-KG316S | 98 × 55 × 42 mm | −20 °C to 60 °C | Resistive, 25 A | 1 minute to 168 hours |
| **2B-01** SE-2B01 | Plug-in time switch with a… | −20 °C to 60 °C | Resistive, 25 A | 1 minute to 168 hours |
| **KG-3** SE-KG3 | 75 × 50 × 120 mm | −20 °C to 60 °C | Resistive, 30 A | 1 minute to 168 hours |
| **KG316-03** SE-KG316-03 | DIN-rail time switch with 16… | −20 °C to 60 °C | Resistive, 25 A | 1 minute to 168 hours |
| **KG316T short body** SE-KG316T-2 | 98 × 64 × 45 mm | −20 °C to 60 °C | Resistive, 30 A | 1 minute to 168 hours |
| **CN101A cover** SE-CN101A-2 | 61 × 61 mm | — | Resistive, 25 A | 1 minute to 168 hours |
| **SUL181d** SE-SUL181D | Mechanical 24-hour time switch… | 110 V AC, 230 V AC | 220 V AC, 16 (4) A | 24 hours |
| **KG316T** SE-KG316T | 120 × 70 × 52 mm | 220 V AC | — | 1 minute to 168 hours |
| **ALC18** SE-ALC18 | Rail mounted, one module wide | — | 0.5 s to 20 minutes, set on the… | 0.5 s to 20 minutes, set on the front knob |
| **CN101A** SE-CN101A | 60 × 60 × 32 mm | 220 V AC, 110 V AC, 50/60 Hz; 12… | 16 A at 250 V AC | 1 minute to 168 hours |
| **KG316T-II** SE-KG316T-II | LCD showing the day, the time… | D+, H+, M+ for setting; red… | Indicator lamp beside the MANUAL… | Module case with a rail base, five screw… |
| **SUL181h** SE-SUL181H | 110 × 54 × 66.5 mm | 220 V AC, 45–60 Hz | 16 A at 250 V AC | 24 hours |
| **TB188 / TB388** SE-TB188 | 24-hour mechanical timer with 96… | 100–240 V AC | 220 V AC, 16 (4) A | 24 hours |
| **AHC15A / THC15A / THC30A** SE-AHC15A | Wall or 35 mm DIN rail | THC15A and THC30A: −10 °C to 40 °C | AHC15A, AHC15B and THC15A: 16 A… | AHC15A and THC15A: 16 operations; THC30A… |

## Counters

Choose by what is being counted and what has to happen at the preset. The preset counters — JDM9 on thumbwheels, DH48J on keys — close a relay when the count is reached, which is what a batching or cut-to-length line needs; the totalisers…

47 MODELS

### LY-11J — SE-LY-11J



| | |
|---|---|
| Type / Function | LY-11J |
| Range / Digits | 0–99999.9 or 0–999999 |
| Supply | 2 W or less |

### JDM9-4 — SE-JDM9-4




| | |
|---|---|
| Type / Function | JDM9-4 |
| Range / Digits | 1–9999 |
| Supply | 12, 24 or 36 V DC; 36… |

### JM72S — SE-JM72S




| | |
|---|---|
| Type / Function | Digital counter, 72 mm face |
| Range / Digits | 1–9999 |
| Supply | AC 12–380 V, DC 12–24 V |

### DJ76 — SE-DJ76



| | |
|---|---|
| Type / Function | Digital counter, 72 mm case |
| Range / Digits | 1–9999 |
| Supply | AC 12–380 V, DC 12–24 V |

### DJ72-6 — SE-DJ72-6



| | |
|---|---|
| Type / Function | Six-digit digital counter |
| Range / Digits | 1–999999 |
| Supply | AC 12–380 V, DC 12–24 V |

### HB961 — SE-HB961




| | |
|---|---|
| Type / Function | Compact totalising counter |
| Range / Digits | 1–9999 |
| Supply | AC 12–380 V, DC 12–24 V |

### DHC3J — SE-DHC3J




| | |
|---|---|
| Type / Function | Base-mounting counter with… |
| Range / Digits | 1–999999 |
| Supply | Own lithium cell |

### H7EC-N — SE-H7EC-N



| | |
|---|---|
| Type / Function | Panel counter with its own… |
| Range / Digits | 1–999999 |
| Supply | Own lithium cell |

### DHC11J — SE-DHC11J




| | |
|---|---|
| Type / Function | Counter with a wide AC or… |
| Range / Digits | 1–999999 |
| Supply | AC 6.3–220 V, DC 6.3–24 V |

### CSK4 — SE-CSK4



| | |
|---|---|
| Type / Function | Electromagnetic counter... |
| Range / Digits | 0–9999 |
| Supply | AC 110 V, 220 V, DC 12–24 V |

### CSK5 — SE-CSK5



| | |
|---|---|
| Type / Function | Electromagnetic counter... |
| Range / Digits | 0–99999 |
| Supply | AC 110 V, 220 V, DC 12–24 V |

### CSK6 — SE-CSK6



| | |
|---|---|
| Type / Function | Electromagnetic counter... |
| Range / Digits | 0–999999 |
| Supply | AC 110 V, 220 V, DC 12–24 V |

## Selection Matrix — Counters (Part 1 of 2)

| Model / SKU | Type / Function | Range / Digits | Supply | Mounting / Cut-out |
|---|---|---|---|---|
| **LY-11J** SE-LY-11J | LY-11J | 0–99999.9 or 0–999999 | 2 W or less | Snap fit, 63.6 × 49.99 mm front |
| **JDM9-4** SE-JDM9-4 | JDM9-4 | 1–9999 | 12, 24 or 36 V DC; 36, 110... | Panel, 48 × 48 mm (1/16 DIN) |
| **JDM9-6** SE-JDM9-6 | JDM9-6 | 1–999999 | 12, 24 or 36 V DC; 36, 110... | Panel, 48 × 48 mm (1/16 DIN) |
| **JM72S** SE-JM72S | Digital counter, 72 mm face | 1–9999 | AC 12–380 V, DC 12–24 V | Panel, 72 × 72 mm |
| **DJ76** SE-DJ76 | Digital counter, 72 mm case | 1–9999 | AC 12–380 V, DC 12–24 V | Panel, 72 × 72 mm |
| **DJ72-6** SE-DJ72-6 | Six-digit digital counter | 1–999999 | AC 12–380 V, DC 12–24 V | Panel, 72 × 72 mm |
| **HB961** SE-HB961 | Compact totalising counter | 1–9999 | AC 12–380 V, DC 12–24 V | Panel |
| **HB962** SE-HB962 | Compact totalising counter... | 1–9999 | — | Panel |
| **DHC3J** SE-DHC3J | Base-mounting counter with its... | 1–999999 | Own lithium cell | Base, two screws |
| **H7EC-N** SE-H7EC-N | Panel counter with its own cell | 1–999999 | Own lithium cell | Panel |
| **DHC11J** SE-DHC11J | Counter with a wide AC or DC... | 1–999999 | AC 6.3–220 V, DC 6.3–24 V | Panel |
| **CSK4** SE-CSK4 | Electromagnetic counter, four... | 0–9999 | AC 110 V, 220 V, DC 12–24 V | Panel |
| **CSK5** SE-CSK5 | Electromagnetic counter, five... | 0–99999 | AC 110 V, 220 V, DC 12–24 V | Panel |
| **CSK6** SE-CSK6 | Electromagnetic counter, six... | 0–999999 | AC 110 V, 220 V, DC 12–24 V | Panel |
| **Z94-F** SE-Z94-F | Mechanical length counter | Metres, through a 1:3 drive from... | None; mechanical drive | Base, on the machine frame |
| **Z96-F** SE-Z96-F | Mechanical length counter... | Metres, through a 1:3 drive from... | None; mechanical drive | Base, on the machine frame |
| **DH48J-8** SE-DH48J-8 | DH48J-8 | 1–9999, x1/x10/x100 multipliers... | 110, 220 or 380 V AC 50/60 Hz... | Panel, 48 × 48 mm (1/16 DIN) |
| **DH48JA** SE-DH48JA | DH48JA | 1–9999, x1/x10/x100 multipliers | 110, 220 or 380 V AC 50/60 Hz... | Panel, 48 × 48 mm (1/16 DIN) |
| **DH48J-11A** SE-DH48J-11A | DH48J-11A | 1–9999, x1/x10/x100 multipliers | 110, 220 or 380 V AC 50/60 Hz... | Panel, 48 × 48 mm (1/16 DIN) |
| **JDM11-6H-C** SE-JDM11-6H-C | JDM11-6H-C | 1–999999 | 110, 220 or 380 V AC 50/60 Hz... | Panel, 48 × 48 mm (1/16 DIN) |

## Selection Matrix — Counters (Part 2 of 2)

| Model / SKU | Type / Function | Range / Digits | Supply | Mounting / Cut-out |
|---|---|---|---|---|
| **JDM11-6H-V** SE-JDM11-6H-V | JDM11-6H-V | 1–999999 | 110, 220 or 380 V AC 50/60 Hz... | Panel, 48 × 48 mm (1/16 DIN) |
| **JDM11-6H-SN** SE-JDM11-6H-SN | JDM11-6H-SN | 1–999999 | 110, 220 or 380 V AC 50/60 Hz... | Panel, 48 × 48 mm (1/16 DIN) |
| **JDM11-6H-SP** SE-JDM11-6H-SP | JDM11-6H-SP | 1–999999 | 110, 220 or 380 V AC 50/60 Hz... | Panel, 48 × 48 mm (1/16 DIN) |
| **CSKE-7R** SE-CSKE-7R | AC 220 V, AC 110 V, AC 24 V, DC... | 0–9999999 | 3 W | — |
| **LY-873 / LY-877** SE-LY-873 | AC 220 V, AC 110 V, AC 24 V, DC... | 0–999 on LY-873, 0–9999999 on... | 3 W | — |
| **YB-06** SE-YB-06 | DC 5 V, DC 12 V, DC 24 V | 0–9999999 | 0.5 W | — |
| **JDM11-5H** SE-JDM11-5H | JDM11-5H | 0–99999 (five), 0–999999 (six) | 2 W or less | — |
| **JDM75-3H** SE-JDM75-3H | JDM75-3H | 0–999 | 2 W or less | — |
| **JDM11-5HA** SE-JDM11-5HA | JDM11-5HA | 0–99999 | 2 W or less | — |
| **LY-9671** SE-LY-9671 | Electronic meter counter with a... | 0.56 in, six digits | Nominal factory voltage; other... | 96 × 48 × 82 mm horizontal, 92 × 45... |
| **LK-90** SE-LK-90 | Measuring wheel counter for length | 0.56 in, six digits | Nominal factory voltage; other... | 96 × 48 × 82 mm horizontal, 92 × 45... |
| **LK-80** SE-LK-80 | Measuring wheel counter with cable | Two rows of six digits, 0.4 in | 5 V and 24 V DC at 35 mA, plus... | 72 × 72 × 105 mm, 68 × 68 mm cut-out |
| **JZ11-5** SE-JZ11-5 | Mechanical metre counter, five... | Mechanical drum | — | Panel or bracket |
| **Q48-JS** SE-Q48-JS | Panel hours meter in a 48 mm... | Mechanical drum | — | Panel or bracket |
| **DJ72-6-1** SE-DJ72-6-1 | Bracket-mounted digital counter... | 1–999999 | — | Bracket, three fixing holes |
| **LY-05A** SE-LY-05A | Punch counter with a sensor on a... | 0–999999 | 2 W or less | — |
| **L7-C-6** SE-L7-C-6 | Six-figure panel counter with a... | 0–999999 | 3 W | Panel counter, six figures, with the... |
| **L7-C-6S** SE-L7-C-6S | Six-figure panel counter... | 0–999999 | 3 W | Six figures in the body with a... |
| **L7-C-8** SE-L7-C-8 | Seven-figure panel counter | 0–9999999 | 3 W | Seven figures for the totals that... |
| **JDM14** SE-JDM14 | Digital multi-function counter... | Four, red LED display | Ordered by voltage at the suffix | Panel cut-out per the drawing |
| **DH14J** SE-DH14J | Preset counter and relay in one... | Four, LED display | Ordered by voltage at the suffix | Panel cut-out per the drawing |
| **SZ-8J** SE-SZ-8J | SZ-8J | 1 to 99999999 | Built-in lithium cell | Panel |
| **JC48S** SE-JC48S | JC48S | 1–999999 | AC 12–380 V, DC 12–24 V | Panel |
| **MCF-4/6X** SE-MCF-4 | AC 220 V, AC 110 V, DC 24 V, DC... | 0–9999 | 3 W | Snap fit, 42 × 20 mm body |
| **MCF-6X / LFC-6(S)** SE-MCF-6X | AC 220 V, AC 110 V, DC 24 V, DC... | 0–999999 | 3 W | Panel mounting, 50 × 25 mm cut-out |
| **ZN48** SE-ZN48 | Counter, time relay counting... | — | 36, 220 or 380 V AC 50/60 Hz... | 45 × 45 mm |
| **ZN72** SE-ZN72 | Counter, time relay counting... | — | 36, 220 or 380 V AC 50/60 Hz... | 68 × 68 mm |

## Hour Meters

Choose by how the meter is fed and where it sits. The mechanical versions need no supply of their own, because the current through the load drives them; the electronic ones take a supply and count to hundredths, with an LCD or a front...

47 MODELS

### HM-1 — SE-HM-1



| | |
|---|---|
| Type | Mechanical |
| Counting Range | 0–99,999.99 h |
| Supply | AC 110 V, 220 V 50 Hz |

### SYS-2 — SE-SYS-2




| | |
|---|---|
| Type | Panel case, sealed against... |
| Counting Range | 0–99999.9 h |
| Supply | DC 10–80 V / AC 100–250 V |

### LY-891A — SE-LY-891A



| | |
|---|---|
| Type | Panel case with a reset... |
| Counting Range | 0–99999.9 h |
| Supply | 0.5 W |

### SH-2 — SE-SH-2




| | |
|---|---|
| Type | Square case with a quartz... |
| Counting Range | 0–99999.99 h |
| Supply | 0.3 W |

### HTET / HTEC — SE-HTET-HTEC




| | |
|---|---|
| Type | Open-frame module with a... |
| Counting Range | 0–9999 h on HTET, 0–999999... |
| Supply | 0.3 W |

### BZ142-1 — SE-BZ142-1



| | |
|---|---|
| Type | Mechanical |
| Counting Range | 0–99,999.99 h |
| Supply | AC 110 V, 220 V 50 Hz |

### DHC3L-6 — SE-DHC3L-6




| | |
|---|---|
| Type | Cell |
| Counting Range | 99,999.9 h to 9,999 h 59 m... |
| Supply | Own lithium cell |

### H7ET — SE-H7ET




| | |
|---|---|
| Type | Lcd-panel |
| Counting Range | 99,999.9 h to 9,999 h 59 m... |
| Supply | Own lithium cell |

### TH-1 — SE-TH-1




| | |
|---|---|
| Type | 50 mm bezel, four-figure... |
| Counting Range | 99999.99 h |
| Supply | 10–60 V and AC 180–240 V... |

### JDM11-6L — SE-JDM11-6L



| | |
|---|---|
| Type | Lcd-panel |
| Counting Range | 9,999,999.9 h to 9,999 h... |
| Supply | AC 12–380 V, DC 12–24 V |

### DH48L — SE-DH48L



| | |
|---|---|
| Type | Programmable |
| Counting Range | 1 s–999 m 59 s, 0.1–9,999.9... |
| Supply | AC 12–380 V, DC 12–24 V |

### SE-H01 — SE-H01




| | |
|---|---|
| Type | Running-time counter (hour... |
| Supply | 10–100 VDC |
| Mounting / Accuracy | Two threaded studs behind... |

## Selection Matrix — Hour Meters (Part 1 of 2)

| Model / SKU | Type | Counting Range | Supply | Mounting / Accuracy |
|---|---|---|---|---|
| **HM-1**<br>SE-HM-1 | Mechanical | 0–99,999.99 h | AC 110 V, 220 V 50 Hz | 45 × 45 mm |
| **SYS-2**<br>SE-SYS-2 | Panel case, sealed against dust... | 0–99999.9 h | DC 10–80 V / AC 100–250 V | Panel, cut-out per the table in the... |
| **LY-891A**<br>SE-LY-891A | Panel case with a reset key; the... | 0–99999.9 h | 0.5 W | ±0.01 |
| **SH-2**<br>SE-SH-2 | Square case with a quartz movement... | 0–99999.99 h | 0.3 W | Panel cut-out per the drawing |
| **HM-2**<br>SE-HM-2 | Mechanical | 0–99,999.99 h | AC 110 V, 220 V 50 Hz | 45 × 45 mm |
| **SYS-3**<br>SE-SYS-3 | Panel case with a bezel clip | 0–99999.9 h | DC 10–80 V / AC 100–250 V | Panel, cut-out per the table in the... |
| **LY-891**<br>SE-LY-891 | Panel case with a reset key | 0–99999.9 h | 0.5 W | ±0.1 |
| **SH-3**<br>SE-SH-3 | Square case, deeper body, same... | 0–99999.99 h | 0.3 W | Panel cut-out per the drawing |
| **HM-1R**<br>SE-HM-1R | Reset | 0–999,999.59 h | 12–36 VDC/AC, 100–240 VAC, 380... | 45 × 45 mm |
| **SYS-4**<br>SE-SYS-4 | Round case with the quartz movement | 0–99999.9 h | DC 10–80 V / AC 100–250 V | Panel, cut-out per the table in the... |
| **SH-1D**<br>SE-SH-1D | Round case with the hour band and... | 0–99999.99 h | 0.3 W | ±0.01 |
| **HM-2FC / HM-2FD**<br>SE-HM-2FC | Card-button case that snaps into... | 0–99999.99 h | 0.3 W | Panel cut-out per the drawing |
| **HM-2R**<br>SE-HM-2R | Reset | 0–999,999.59 h | 12–36 VDC/AC, 100–240 VAC, 380... | 45 × 45 mm |
| **SYS-5**<br>SE-SYS-5 | Round case, two fixing screws | 0–99999.9 h | DC 10–80 V / AC 100–250 V | Panel, cut-out per the table in the... |
| **SH-1D2**<br>SE-SH-1D2 | Round case, the second body in the... | 0–99999.99 h | 0.3 W | ±0.01 |
| **HM-4**<br>SE-HM-4 | Guide-rail case that clips on the... | 0–99999.99 h | 0.3 W | Panel cut-out per the drawing |
| **HM-1D**<br>SE-HM-1D | Lcd | 0–999,999.59 h | 12–36 VDC/AC, 100–240 VAC, 380... | 45 × 45 mm |
| **SYS**<br>SE-SYS | Square mechanical case | 0–9999.9 h | DC 12–36 V / AC 150–240 V | Panel, cut-out per the table in the... |
| **HM-2/uwz48**<br>SE-HM-2-2 | Snap or rail mounted case with a... | 0–99999.99 h | 0.3 W | Panel cut-out per the drawing |
| **HM-2D**<br>SE-HM-2D | Lcd | 0–999,999.59 h | 12–36 VDC/AC, 100–240 VAC, 380... | 45 × 45 mm |

## Selection Matrix — Hour Meters (Part 2 of 2)

| Model / SKU | Type | Counting Range | Supply | Mounting / Accuracy |
|---|---|---|---|---|
| **SYS-N** SE-SYS-N | Square case, narrow bezel | 0–9999.9 h | DC 12–36 V / AC 150–240 V | Panel, cut-out per the table in the... |
| **HM-1/uwz48** SE-HM-1-2 | Snap-type or rail-type case, five... | 0–99999.99 h | 0.3 W | Panel cut-out per the drawing |
| **LY-758D** SE-LY-758D | Round CAN-bus hour meter, IP67 | 0–99999.9 h | DC 9–40 V | — |
| **HM-D48** SE-D48 | Mechanical | 0–999.59 h | 110 V, 220 V, 380 V | 45 × 45 mm |
| **SYS-R** SE-SYS-R | Round case in the SYS family | 0–99999.9 h | DC 12–36 V / AC 150–240 V | Panel, cut-out per the table in the... |
| **HTET / HTEC** SE-HTET-HTEC | Open-frame module with a... | 0–9999 h on HTET, 0–999999 on HTEC | 0.3 W | Panel cut-out per the drawing |
| **BZ142-1** SE-BZ142-1 | Mechanical | 0–99,999.99 h | AC 110 V, 220 V 50 Hz | 45 × 45 mm |
| **SYS-1D** SE-SYS-1D-2 | Panel case, the LCD build | 0–99999.9 h | DC 10–60 V / AC 150–240 V | Panel, cut-out per the table in the... |
| **SYS-1** SE-SYS-1 | Compact | 0–99,999.9 h | 10–80 VDC, 100–250 VAC | 44.5 × 23.6 mm |
| **SYS-3D** SE-SYS-3D | Panel case, the later LCD build | 0–99999.9 h | DC 10–60 V / AC 150–240 V | Panel, cut-out per the table in the... |
| **SYS-1D-R** SE-SYS-1D | Compact | 0–999,999.59 h | 12–36 VDC/AC, 100–240 VAC, 380... | 44.5 × 23.6 mm |
| **LY-05T** SE-LY-05T | Round case on the widest supply in... | 0–99999.9 h | AC/DC 6–270 V | Panel, cut-out per the table in the... |
| **SH-1** SE-SH-1 | Compact | 0–99,999.9 h | 10–80 VDC, 100–250 VAC | 50 × 50 mm |
| **LY-DH1** SE-DH1 | Panel case, reset on the body | 0–99999.9 h | DC 10–60 V / AC 150–240 V | Panel, cut-out per the table in the... |
| **DHC3L-6** SE-DHC3L-6 | Cell | 99,999.9 h to 9,999 h 59 m 59 s | Own lithium cell | 22 × 45 mm |
| **LY-05D1** SE-LY-05D1 | Panel case with a remote reset on... | 0–99999.9 h | DC 10–60 V / AC 150–240 V | Panel, cut-out per the table in the... |
| **DHC3L-8** SE-DHC3L-8 | Cell | 9,999,999.9 h to 99,999 h 59 m... | Own lithium cell | 22 × 45 mm |
| **LY-05D2** SE-LY-05D2 | Panel case with a remote reset... | 0–99999.9 h | DC 10–60 V / AC 150–240 V | Panel, cut-out per the table in the... |
| **H7ET** SE-H7ET | Lcd-panel | 99,999.9 h to 9,999 h 59 m 59 s | Own lithium cell | 22 × 45 mm |
| **TH-1** SE-TH-1 | 50 mm bezel, four-figure quartz... | 99999.99 h | 10–60 V and AC 180–240 V, AC... | Panel, cut-out per the table in the... |
| **JDM11-6L** SE-JDM11-6L | Lcd-panel | 9,999,999.9 h to 9,999 h 59 m 59 s | AC 12–380 V, DC 12–24 V | 22 × 45 mm |
| **LY-748** SE-LY-748 | Panel case, wide AC or DC supply | 0–99999.9 h | AC/DC 12–36 V / AC 100–250 V | Panel, cut-out per the table in the... |
| **DH48L** SE-DH48L | Programmable | 1 s–999 m 59 s, 0.1–9,999.9 h... | AC 12–380 V, DC 12–24 V | 45 × 45 mm |
| **LY-748D** SE-LY-748D | Panel case, higher accuracy movement | 0–99999.9 h | DC 12–36 V / AC 24–250 V | Panel, cut-out per the table in the... |
| **LY-758** SE-LY-758 | Panel case, wide supply | 0–99999.9 h | AC/DC 10–80 V / AC 100–250 V | Panel, cut-out per the table in the... |
| **LY-768** SE-LY-768 | Panel case, wide supply, larger... | 0–99999.9 h | AC/DC 10–80 V / AC 100–250 V | Panel, cut-out per the table in the... |
| **SE-H01** SE-H01 | Running-time counter (hour meter)... | — | 10–100 VDC | Two threaded studs behind the panel |

## AC Contactors

Choose by the current and by what the panel has to do with it. The LC2-D frame covers nine to a hundred and seventy amps in three or four poles; CJX2N adds a one NO and one NC auxiliary on the board; the F frames take the same job up to…

16 MODELS

### LC2-Z

SE-LC2-Z



| | |
|---|---|
| Series / Type | LC2-Z DC contactor, for… |
| Current / Ratings | Rated voltage up to 690 V… |
| Coil / Voltage | DC coil, voltage ordered… |

### CJ19

SE-CJ19



| | |
|---|---|
| Series / Type | CJ19 switching capacitor… |
| Coil / Voltage | 110, 127, 220 or 380 V |
| Standard / Application | Switching low-voltage… |

### JZC4

SE-JZC4



| | |
|---|---|
| Series / Type | JZC4 contactor relay |
| Current / Ratings | 10 A |
| Coil / Voltage | AC or DC, voltage ordered… |

### CJX2-F

SE-CJX2-F



| | |
|---|---|
| Series / Type | CJX2-F reversing… |
| Standard / Application | Reversible starting of… |
| Accessories | One-pole main contact… |

### LA1 / LA2 / LA3 / LA9

SE-AUXILIARY-CONTAC



| | |
|---|---|
| Series / Type | Auxiliary contact blocks… |
| Coil / Voltage | Replacement coils for the… |
| Front blocks | Clip onto the top of the… |

### LC6K

SE-LC6K



| | |
|---|---|
| Series / Type | LC6K miniature contactor… |
| Coil / Voltage | DC coil on the DC builds… |
| Standard / Application | Injection moulding… |

### LE1-D

SE-LE1-D



| | |
|---|---|
| Series / Type | LE1-D magnetic starter… |
| Current / Ratings | 09, 12, 18, 25, 32, 40… |
| Standard / Application | IEC 60947-4-1 and IEC… |

### JKC1

SE-JKC1



| | |
|---|---|
| Series / Type | JKC1 modular contactor, 50… |
| Current / Ratings | 16 A to 100 A in AC-7a, 6… |
| Coil / Voltage | 24, 110 or 230 V AC, 50 Hz |

### CJ20

SE-CJ20



| | |
|---|---|
| Series / Type | CJ20 AC contactor |
| Coil / Voltage | AC 50 Hz at 110, 127, 220… |
| Standard / Application | GB 14048.5 and IEC 60947-5-1 |

## Complete Selection Matrix — AC Contactors (16 Models)

| Model / SKU | Series / Type | Current / Ratings | Coil / Voltage | Standard / Application |
|---|---|---|---|---|
| **LC2-Z**<br>SE-LC2-Z | LC2-Z DC contactor, for direct... | Rated voltage up to 690 V, rated... | DC coil, voltage ordered with... | IEC 60947-4-1 and GB 14048.4 |
| **LC2-N**<br>SE-LC2-N | LC2-N mechanical interlocking... | — | — | IEC 60947-4-1 and GB 14048.4 |
| **CJ19**<br>SE-CJ19 | CJ19 switching capacitor contactor | — | 110, 127, 220 or 380 V | Switching low-voltage power capacitors... |
| **JZC4**<br>SE-JZC4 | JZC4 contactor relay | 10 A | AC or DC, voltage ordered with... | GB 14048 and IEC 60947-4-1 |
| **CJX2-F**<br>SE-CJX2-F | CJX2-F reversing contactor... | — | — | Reversible starting of three-phase... |
| **CJX2N**<br>SE-CJX2N | CJX2N AC contactor | — | 24, 48, 110, 220/230, 380/400... | IEC 60947-4-1 and GB 14048.5 |
| **LA1 / LA2 / LA3 / LA9**<br>SE-AUXILIARY-CONTAC | Auxiliary contact blocks, air delay... | — | Replacement coils for the LC2-D... | — |
| **LC6K**<br>SE-LC6K | LC6K miniature contactor and relay | — | DC coil on the DC builds, AC... | Injection moulding, extruders, door... |
| **CJX2-F**<br>SE-CJX2-F-2 | CJX2-F large capacity contactor... | AC-3 rated current up to 440 V, AC-1... | — | IEC 60947-4-1, GB 14048.4 and EN 60947-4-1 |
| **CJX2-F four pole**<br>SE-CJX2-F-3 | CJX2-F large capacity contactor... | — | — | IEC 60947-4-1, GB 14048.4 and EN 60947-4-1 |
| **LE1-D**<br>SE-LE1-D | LE1-D magnetic starter, contactor... | 09, 12, 18, 25, 32, 40, 50, 65, 80... | — | IEC 60947-4-1 and IEC 60943-1 |
| **JKC1**<br>SE-JKC1 | JKC1 modular contactor, 50 Hz, DIN... | 16 A to 100 A in AC-7a, 6 A to 25 A... | 24, 110 or 230 V AC, 50 Hz | IEC 60947-4-1 and GB 14048.4 |
| **CJ20**<br>SE-CJ20 | CJ20 AC contactor | — | AC 50 Hz at 110, 127, 220 or 380... | GB 14048.5 and IEC 60947-5-1 |
| **LR-D**<br>SE-LR-D | LR-D thermal overload relay, with... | Class 10 A | — | One normally open and one normally... |
| **CJX2**<br>SE-CJX2 | AC contactor for remote switching... | up to 95A | up to 690V | GB 14048.5, IEC 60947-5-1 |
| **LC2-D**<br>SE-LC2-D | LC2-D AC contactor, three and four... | 9 A to 170 A in AC-3 at 380–440 V... | 24 V to 660 V, code letter... | IEC 60947-4-1 and GB 14048.4 |

## Variable Frequency Drives

Variable frequency drives for three-phase motor speed control: single-phase 220V to three-phase 220V and 380V, and three-phase 380V to three-phase 380V, from 0.4kW to 15kW.

5 MODELS

### 320 — SE-VFD-320



| | |
|---|---|
| Series / Control | V/F with AVR, PID, EMC... |
| Supply Input | Single phase 220–240 V... |
| Output / Power | 0.4 kW to 3 kW |

### 720 — SE-VFD-720



| | |
|---|---|
| Series / Control | Current vector, low... |
| Supply Input | Single phase 220–240 V... |
| Output / Power | 0.75 kW to 5.5 kW |

### 800 — SE-VFD-800



| | |
|---|---|
| Series / Control | 800 Series, for single-phas... |
| Supply Input | Single phase 220–240 V |
| Output / Power | Two-phase output for the... |

### H710 — SE-VFD-H710



| | |
|---|---|
| Series / Control | full vector control with... |
| Supply Input | single-phase 220VAC... |
| Output / Power | three-phase 220VAC or... |

### H350 — SE-VFD-H350



| | |
|---|---|
| Series / Control | V/F control with... |
| Supply Input | single-phase 220VAC, 50/60Hz |
| Output / Power | three-phase 220VAC or... |

### Complete Selection Matrix — Variable Frequency Drives (5 Models)

| Model / SKU | Series / Control | Supply Input | Output / Power | Interface / Protection |
|---|---|---|---|---|
| **320** SE-VFD-320 | V/F with AVR, PID, EMC filter, double... | Single phase 220–240 V; three... | 0.4 kW to 3 kW | Four-digit LED behind a CTRL-PANEL window |
| **720** SE-VFD-720 | Current vector, low frequency torque, PG... | Single phase 220–240 V; three... | 0.75 kW to 5.5 kW | Five-digit LED with run, stop, forward and... |
| **800** SE-VFD-800 | 800 Series, for single-phase capacitor... | Single phase 220–240 V | Two-phase output for the capacitor... | Four-digit LED with Power, Run, Stop... |
| **H710** SE-VFD-H710 | full vector control with encoderless... | single-phase 220VAC, 50/60Hz, up... | three-phase 220VAC or 380VAC... | over-current, over-voltage, under-voltage... |
| **H350** SE-VFD-H350 | V/F control with multi-step speed... | single-phase 220VAC, 50/60Hz | three-phase 220VAC or 380VAC... | over-current, over-voltage, under-voltage... |

## Power Supplies

Choose by where the unit sits and what it feeds. The S and MS ranges are the enclosed single-output supplies for a cabinet; the LPV range is the sealed constant-voltage driver for LED lighting outdoors; the D range gives two rails from…

**13** MODELS

### S series — SE-PS-S



| | |
|---|---|
| Power Range | 15 W to 800 W frames |
| DC Output | Single rail, voltage set… |
| Construction & Prot. | Enclosed case, screw… |

### MS series — SE-PS-MS



| | |
|---|---|
| Power Range | 15 W to 500 W, plus… |
| DC Output | Single rail, voltage set… |
| Construction & Prot. | Compact enclosed case; MSF… |

### D series — SE-PS-D



| | |
|---|---|
| Power Range | 30 W to 350 W |
| DC Output | Two rails: A is 5 V / 12… |
| AC Input | 100–240 V AC, 50/60 Hz |

### Complete Selection Matrix — Power Supplies (13 Models)

| Model / SKU | Power Range | DC Output | AC Input | Construction & Prot. |
|---|---|---|---|---|
| **S series** SE-PS-S | 15 W to 800 W frames | Single rail, voltage set by the model… | — | Enclosed case, screw terminals |
| **MS series** SE-PS-MS | 15 W to 500 W, plus MSF-20W… | Single rail, voltage set by the model | — | Compact enclosed case; MSF open frame |
| **D series** SE-PS-D | 30 W to 350 W | Two rails: A is 5 V / 12 V, B is 5 V /… | 100–240 V AC, 50/60 Hz | Enclosed case, screw terminals |
| **LRS series** SE-LRS | 35 W to 600 W frames | 12 V or 24 V, fixed by the model; 15 V… | 85–264 V AC or 120–373 V DC… | Slim metal case, screw terminals, front… |
| **MDR series** SE-MDR | 10 W to 120 W | 5 V, 12 V, 15 V, 24 V or 48 V, fixed… | 100–240 V AC, 50/60 Hz | 35 mm DIN rail |
| **DR series** SE-DR | 15 W to 120 W | 5 V, 12 V or 24 V, fixed by the model | 100–240 V AC, 50/60 Hz | 35 mm DIN rail |
| **SC series** SE-SC-UPS | 35 W to 350 W | 12 V or 24 V, fixed by the model | 220 V AC | Enclosed metal case, screw terminals… |
| **EDR / NDR series** SE-EDR-NDR | 75 W to 480 W | 12 V, 24 V or 48 V, fixed by the model | 100–240 V AC, 50/60 Hz | Enclosed case, front terminals, DC OK… |
| **S high-power** SE-PS-S-2 | 1000 W to 3000 W | 12 V, 24 V, 36 V, 48 V or 110 V, fixed… | 180–264 V AC on the… | Perforated steel case, internal fan… |
| **SDR series** SE-SDR | 75 W to 480 W | 12 V, 24 V or 48 V, fixed by the model | 100–240 V AC, 50/60 Hz | Slim metal case, green terminals at both… |
| **DRH / DRT / WDR** SE-WDR-380V | 60 W to 480 W | 5 V, 12 V, 15 V, 24 V, 36 V or 48 V… | 330–450 V AC across L1 and L2 | Slim metal case, green terminals at both… |
| **XDR series** SE-XDR | 75 W to 480 W | 12 V, 24 V, 36 V or 48 V, fixed by the… | 100–240 V AC, single phase | Slim metal case, front terminals, DC OK… |
| **HDR series** SE-HDR | 15 W to 150 W | 5 V, 12 V, 15 V, 24 V or 48 V, fixed… | 100–240 V AC, 50/60 Hz | 35 mm DIN rail |

## Motor Protection & Voltage Relays

Choose by what can go wrong. The phase failure relays (XJ3, APR) drop the contactor when a phase is missing or the sequence reverses; the voltage protectors (AVP, JVM) hold the contactor closed only while the supply is inside the window...

**20** MODELS

### XJ3-G — SE-XJ3-G



| | |
|---|---|
| Function / Type | C: phase failure and... |
| Supply / Monitored V | Three-phase AC 380 V, 50 Hz |
| Contact / Protection | 3 A at 250 V AC, resistive |

### RST25 — SE-RST25



| | |
|---|---|
| Function / Type | Phase sequence |
| Supply / Monitored V | Three-phase AC 380 V, 50 Hz |
| Contact / Protection | 3 A at 250 V AC, resistive |

### JVM-1 — SE-JVM-1



| | |
|---|---|
| Function / Type | Voltage monitor for phase... |
| Supply / Monitored V | Three-phase 380 V AC... |
| Contact / Protection | 3 A at 250 V AC, resistive |

### TRD-N — SE-TRD-N



| | |
|---|---|
| Function / Type | Star-delta changeover timer |
| Supply / Monitored V | AC 110, 220, 240 V, 50/60 Hz |
| Contact / Protection | 250 V AC, 5 A resistive |

### AMD-N — SE-AMD-N



| | |
|---|---|
| Supply / Monitored V | AC 110, 220, 240, 380... |
| Contact / Protection | 250 V AC, 5 A resistive |
| Body / Mounting | Surface or 35 mm DIN rail |

### TWB-ND — SE-TWB-ND



| | |
|---|---|
| Supply / Monitored V | 12, 24, 110, 220, 240, 380... |
| Contact / Protection | 250 V AC, 5 A resistive |
| Body / Mounting | Surface or 35 mm DIN rail |

### MK-05 — SE-MK-05



| | |
|---|---|
| Supply / Monitored V | AC 110, 220, 240, 380... |
| Contact / Protection | 250 V AC, 5 A resistive |
| Body / Mounting | 35 mm DIN rail |

### MKC-06 — SE-MKC-06



| | |
|---|---|
| Supply / Monitored V | 340–460 V AC |
| Contact / Protection | Normally open, micro-curren... |
| Body / Mounting | DIN rail |

### AVP-63A — SE-AVP-63A



| | |
|---|---|
| Function / Type | 240–300 V adjustable |
| Supply / Monitored V | AC 230–300 V |
| Contact / Protection | 1–63 A, set on the front |

## Complete Selection Matrix — Motor Protection & Voltage Relays (20 Models)

| Model / SKU | Function / Type | Supply / Monitored V | Contact / Protection | Body / Mounting |
|---|---|---|---|---|
| **XJ3-G** SE-XJ3-G | C: phase failure and sequence; D and... | Three-phase AC 380 V, 50 Hz | 3 A at 250 V AC, resistive | Surface or 35 mm DIN rail |
| **XJ3-D** SE-XJ3-D | Over-voltage, under-voltage, phase... | Three-phase AC 380 V, 50 Hz | 3 A at 250 V AC, resistive | 35 mm DIN rail |
| **RST25** SE-RST25 | Phase sequence | Three-phase AC 380 V, 50 Hz | 3 A at 250 V AC, resistive | 35 mm DIN rail |
| **JVM-1** SE-JVM-1 | Voltage monitor for phase failure and... | Three-phase 380 V AC, 50/60 Hz | 3 A at 250 V AC, resistive | Surface or 35 mm DIN rail |
| **JVM-2** SE-JVM-2 | Voltage monitor with an adjustable... | Three-phase 220 V AC, 50/60 Hz | 3 A at 250 V AC, resistive | Surface or 35 mm DIN rail |
| **TRD-N** SE-TRD-N | Star-delta changeover timer | AC 110, 220, 240 V, 50/60 Hz | 250 V AC, 5 A resistive | Surface or 35 mm DIN rail |
| **AMD-N** SE-AMD-N | Speed detector that watches shaft... | AC 110, 220, 240, 380, 415, 450... | 250 V AC, 5 A resistive | Surface or 35 mm DIN rail |
| **TWB-ND** SE-TWB-ND | Reversing relay that interposes a... | 12, 24, 110, 220, 240, 380 V AC... | 250 V AC, 5 A resistive | Surface or 35 mm DIN rail |
| **MK-05** SE-MK-05 | Current-sensing protector with a... | AC 110, 220, 240, 380, 415, 450 V | 250 V AC, 5 A resistive | 35 mm DIN rail |
| **MKC-06** SE-MKC-06 | Over-voltage cut-out for the... | 340–460 V AC | Normally open, micro-current load | DIN rail |
| **AVP-63A** SE-AVP-63A | 240–300 V adjustable | AC 230–300 V | 1–63 A, set on the front | DIN rail |
| **AVP-01** SE-AVP-01 | Voltage and current protector, single... | AC 230–300 V | 1–63 A, set on the front | DIN rail |
| **AVP-02** SE-AVP-02 | 240–300 V adjustable | AC 230–300 V | 1–63 A, set on the front | DIN rail |
| **SZ-3LVA** SE-SZ-3LVA | Three-phase voltage protector with a... | AC 230–300 V, three phase | 1–63 A, set on the front | DIN rail |
| **PU-NC** SE-PU-NC | Sensor power supply controller | — | 5 A at 250 V AC, resistive | Surface, rail or screw |
| **C-6** SE-C-6 | Sensor controller for a proximity or... | 220 V AC | COM with NO and NC | Surface, rail or screw |
| **JGZ1** SE-JGZ1 | Brake solid state relay, 24 V AC in... | — | DC 24 V, 5 A, terminals 7 and 8 | Surface or 35 mm DIN rail |
| **SS-22** SE-SS-22 | Small triac controller for a... | 220 V AC | 6–250 W | Surface or 35 mm DIN rail |
| **APR-3 / APR-4** SE-APR-3 | Three-phase voltage and phase-sequence... | — | Relay contact in the contactor... | Relay socket |
| **AG4Q-K** SE-AG4Q-K | Latching relay, keeps its state when... | AC 12, 24, 110, 220, 240 V; DC... | 5 A | Relay socket |

## Liquid Level Controllers

Choose by what the tank holds and how the pump is switched. The floatless relays (61F, DF, JYB) sense through electrodes and switch a contactor, so there is no float to jam and the sensitivity is set on the face; the probe and holder...

16 MODELS

### C61F-GP — SE-C61F-GP



| | |
|---|---|
| Type / Duty | Floatless level relay with... |
| Sensing / Material | Low voltage AC between... |
| Supply / Lengths | 12 V AC/DC, 24 V AC/DC... |

### AFS-1 — SE-AFS-1



| | |
|---|---|
| Type / Duty | Floatless level relay with... |
| Sensing / Material | Low voltage AC between... |
| Supply / Lengths | 12 V AC/DC, 24 V AC/DC... |

### AFR-1 — SE-AFR-1



| | |
|---|---|
| Type / Duty | Floatless level relay with... |
| Sensing / Material | Low voltage AC between... |
| Supply / Lengths | 12 V AC/DC, 24 V AC/DC... |

### Complete Selection Matrix — Liquid Level Controllers (16 Models)

| Model / SKU | Type / Duty | Sensing / Material | Supply / Lengths | Mounting & Body |
|---|---|---|---|---|
| **C61F-GP** SE-C61F-GP | Floatless level relay with electrode... | Low voltage AC between electrodes | 12 V AC/DC, 24 V AC/DC, 110 V... | 35 mm DIN rail on the socket |
| **C61F-GP-N** SE-C61F-GP-N | Floatless level relay with electrode... | Low voltage AC between electrodes | 12 V AC/DC, 24 V AC/DC, 110 V... | 35 mm DIN rail on the socket |
| **C61F-GP-N8** SE-C61F-GP-N8 | Floatless level relay with electrode... | Low voltage AC between electrodes | 12 V AC/DC, 24 V AC/DC, 110 V... | 35 mm DIN rail on the socket |
| **C61F-GPR** SE-C61F-GPR | Floatless level relay with electrode... | Low voltage AC between electrodes | 12 V AC/DC, 24 V AC/DC, 110 V... | 35 mm DIN rail on the socket |
| **AFS-1** SE-AFS-1 | Floatless level relay with electrode... | Low voltage AC between electrodes | 12 V AC/DC, 24 V AC/DC, 110 V... | 35 mm DIN rail on the socket |
| **AFS-GR** SE-AFS-GR | Floatless level relay with electrode... | Low voltage AC between electrodes | 12 V AC/DC, 24 V AC/DC, 110 V... | 35 mm DIN rail on the socket |
| **AFR-1** SE-AFR-1 | Floatless level relay with electrode... | Low voltage AC between electrodes | 12 V AC/DC, 24 V AC/DC, 110 V... | 35 mm DIN rail on the socket |
| **61F-G** SE-61F-G | Floatless level relay with electrode... | Low voltage AC between electrodes | 110 V AC or 220 V AC | 35 mm DIN rail on the socket |
| **61F-G1** SE-G1 | Floatless level relay with electrode... | Low voltage AC between electrodes | 110 V AC or 220 V AC | 35 mm DIN rail on the socket |
| **DF-96A / DF-96B** SE-DF-96AB | Floatless level controller | Electrode probe | 12 V AC/DC, 24 V AC/DC, 220 V... | DIN rail or screw fixing |
| **DF-96D** SE-DF-96D | Floatless level controller | Electrode probe | 12–380 V AC, 50/60 Hz | Rail or screw fixing |
| **DF-96DK** SE-DF-96DK | Floatless level controller | Electrode probe | 12 V AC/DC, 24 V AC/DC, 220 V... | 35 mm DIN rail on the socket |
| **Stainless water probe** SE-LEVEL-PROBE | Level probe with lead | 304 stainless steel, corrosion... | 2, 5, 10, 15 or 20 m | Wired to the controller |
| **PS-3S / PS-4S / PS-5S** SE-PS-ELECTRODE | Electrode rod set with holder | 304 stainless, 316 stainless or... | Clean water | — |
| **SSRC-04** SE-SSRC-04 | Liquid level controller, high and... | — | 190–260 V AC | DIN rail |
| **JYB-714** SE-JYB-714 | Floatless level controller | Electrode probe | 12 V AC/DC, 24 V AC/DC, 220 V... | 35 mm DIN rail on the socket |

## Rotary Encoders

Incremental optical encoders for motor feedback and length measurement: 38, 50, 58 and 78 mm solid-shaft bodies, 58, 80 and 100 mm hollow-shaft bodies, pulses from 2 to 10,000 P/R, and open collector, complementary, push-pull, NPN, PNP, 5...

**14** MODELS

### SEP



| | |
|---|---|
| Body / Types | 38, 50, 58 and 78 mm... |
| Pulses / Bore | 2 to 10,000 P/R, chosen... |
| Output / Channels | Open collector, complementa... |

### SEP30/4



| | |
|---|---|
| Body / Types | Ø30mm, 32mm long, two M3... |
| Pulses / Bore | 100, 200, 360, 500, 600... |
| Supply / Fixing | +5VDC ±5 %, or 8–30VDC |

### SEP50/8



| | |
|---|---|
| Body / Types | Ø50mm, 37mm deep with a... |
| Pulses / Bore | 100 to 2500 P/R, chosen on... |
| Supply / Fixing | 5VDC, 8–30VDC, or the... |

### Complete Selection Matrix — Rotary Encoders (14 Models)

| Model / SKU | Body / Types | Pulses / Bore | Supply / Fixing | Output / Channels |
|---|---|---|---|---|
| **SEP** | 38, 50, 58 and 78 mm, solid shaft | 2 to 10,000 P/R, chosen when... | — | Open collector, complementary, push-pull... |
| **SEP30/4** | Ø30mm, 32mm long, two M3 mounting... | 100, 200, 360, 500, 600, 1024... | +5VDC ±5 %, or 8–30VDC | Open collector, voltage, complementary... |
| **SEP38/6** | Ø38mm flange 34mm long (37mm on the... | 100, 200, 360, 500, 600, 1024... | +5VDC ±5 %, or 8–30VDC | Open collector, voltage, complementary... |
| **SEP50/8** | Ø50mm, 37mm deep with a cable exit... | 100 to 2500 P/R, chosen on the... | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SEP58/10** | Ø58mm, 32mm thick; SEF58/10 on a... | 100 to 2500 P/R | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SEP115/11** | Ø115mm flange, 52mm body, socket at... | 100 to 2500 P/R | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SEF68/15K** | 68 × 68mm square flange, Ø68 body... | 100 to 2500 P/R | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SEB38/8** | Semi-hollow Ø38mm, 42.5mm deep... | 100 to 2500 P/R | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SEB50/8** | Ø50mm, 38.5mm deep, hollow through... | 100 to 2500 P/R | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SEB58/14** | Ø58mm semi-hollow, 57mm deep, Ø64... | 100 to 2500 P/R | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SET80/30** | Ø80mm, Ø37mm hub, 43.5mm deep with... | 100 to 2500 P/R | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SET100/45** | Ø100mm, Ø52mm hub, 45mm deep with... | 100 to 2500 P/R | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SET120/60** | Ø120mm, 53mm deep with the DB15 socket | 600, 1024, 2048, 2500 or 4096... | 5VDC, 8–30VDC, or the 5–24V... | Open collector, voltage, complementary... |
| **SE-CPL** SE-CPL | Machined to the pair of shaft... | Machined to the pair of shaft... | Clamp screw or taper-lock, on... | Replaceable, in three hardness grades to... |

## Safety Light Curtains

Choose by what you are guarding. Safety light curtains in aluminium: the SCT universal curtain, the GM and SCB bars, the SCC side-mounted grid, the SCL fine-pitch grating for finger protection, the SCF rugged and SCE waterproof versions...

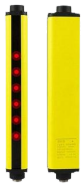
8 MODELS

### GM — SE-GM



| | |
|---|---|
| Beam Pitch | 20 mm or 40 mm optical... |
| Protected Height | 60 mm to 2000 mm |
| Output / Supply | relay or transistor... |

### SCF — SE-SCF



| | |
|---|---|
| Beam Pitch | 20 mm or 40 mm optical... |
| Protected Height | 60 mm to 2000 mm |
| Output / Supply | NPN or PNP, or relay NO /... |

### SCE — SE-SCE



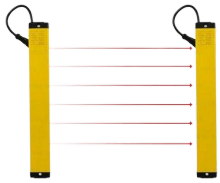
| | |
|---|---|
| Beam Pitch | 20 mm or 40 mm optical... |
| Protected Height | 60 mm to 2000 mm |
| Output / Supply | NPN or PNP, or relay NO /... |

### SCB — SE-SCB



| | |
|---|---|
| Beam Pitch | 20 mm or 40 mm optical... |
| Protected Height | 60 mm to 2000 mm |
| Output / Supply | NPN or PNP, or relay NO /... |

### SCC — SE-SCC



| | |
|---|---|
| Beam Pitch | 20 mm or 40 mm optical... |
| Protected Height | 60 mm to 2000 mm |
| Output / Supply | NPN or PNP, or relay NO /... |

### SCG — SE-SCG-BARRIER



| | |
|---|---|
| Beam Pitch | 20 mm or 40 mm optical... |
| Protected Height | 60 mm to 2000 mm |
| Output / Supply | NPN or PNP, or relay NO /... |

### Complete Selection Matrix — Safety Light Curtains (8 Models)

| Model / SKU | Beam Pitch | Protected Height | Output / Supply | Response & Enclosure |
|---|---|---|---|---|
| **GM** SE-GM | 20 mm or 40 mm optical axis... | 60 mm to 2000 mm | relay or transistor output, NPN or PNP | under 50 ms on the relay output, under... |
| **SCF** SE-SCF | 20 mm or 40 mm optical axis... | 60 mm to 2000 mm | NPN or PNP, or relay NO / NC on order | under 10 ms |
| **SCE** SE-SCE | 20 mm or 40 mm optical axis... | 60 mm to 2000 mm | NPN or PNP, or relay NO / NC on order | under 10 ms |
| **SCB** SE-SCB | 20 mm or 40 mm optical axis... | 60 mm to 2000 mm | NPN or PNP, or relay NO / NC on order | under 10 ms |
| **SCC** SE-SCC | 20 mm or 40 mm optical axis... | 60 mm to 2000 mm | NPN or PNP, or relay NO / NC on order | under 10 ms |
| **SCG** SE-SCG-BARRIER | 20 mm or 40 mm optical axis... | 60 mm to 2000 mm | NPN or PNP, or relay NO / NC on order | under 10 ms |
| **SCL** SE-SCL-GRATING | 5, 10, 20 or 40 mm optical... | 60 mm to 2000 mm | NPN or PNP, or relay NO / NC on order | under 10 ms |
| **SCT** SE-SCT | 20 mm or 40 mm optical axis... | 60 mm to 2000 mm | NPN or PNP, or relay NO / NC on order | under 10 ms |

## Insulation Monitors

Choose by what the bus runs at. Every version measures the resistance from either pole to earth and trips a relay when it falls through the threshold: the UB1K for a kilovolt bus and the UB100 for low-voltage control circuits in the same...

14 MODELS

### SZDCG-UBCS1 — SE-UBCS1



| | |
|---|---|
| System Voltage | DC insulation monitor for... |
| Resistance / Function | 0 kΩ–10 MΩ across a... |
| Aux. Supply / Sensing | 10–30 VDC; 120 mA at 12 V... |

### SZIM-DAR — SE-GYIM-DAR



| | |
|---|---|
| System Voltage | DC insulation monitor for... |
| Resistance / Function | 0 kΩ–10 MΩ across a... |
| Aux. Supply / Sensing | 10–30 VDC; 120 mA at 12 V... |

### SZID — SE-GYID-INSULATION



| | |
|---|---|
| System Voltage | 0–1000 VDC, tested at 1050... |
| Resistance / Function | 0–50 MΩ; above 50 MΩ the... |
| Aux. Supply / Sensing | 9–36 VDC, input power ≤2 W |

### Complete Selection Matrix — Insulation Monitors (14 Models)

| Model / SKU | System Voltage | Resistance / Function | Aux. Supply / Sensing | Mounting / Accuracy |
|---|---|---|---|---|
| **SZDCG-UBCS1** SE-UBCS1 | DC insulation monitor for unearthed... | 0 kΩ–10 MΩ across a 100–1000 VDC... | 10–30 VDC; 120 mA at 12 V or 55... | ±2 V from 0 to 400 VDC, ±0.5 % from 400... |
| **SZDCG-UBCW2K** SE-UBCW2K | DC insulation monitor for unearthed... | 0 kΩ to 10 MΩ across a 100–2000 VDC... | 10–30 VDC, drawing 90 mA at 12 V... | ±2 V from 0 to 400 VDC, ±0.5 % from 400... |
| **SZIM-DAR** SE-GYIM-DAR | DC insulation monitor for unearthed... | 0 kΩ–10 MΩ across a 100–1000 VDC... | 10–30 VDC; 120 mA at 12 V or 55... | ±2 V from 0 to 400 VDC, ±0.5 % from 400... |
| **SZID** SE-GYID-INSULATION | 0–1000 VDC, tested at 1050 VDC... | 0–50 MΩ; above 50 MΩ the value reads... | 9–36 VDC, input power ≤2 W | Riso published over CAN from 0 to 1000... |
| **SZDCG-MBC** SE-MBC-INSULATION | DC insulation monitor for unearthed... | finds which branch is leaking, not... | one clamp sensor per outgoing... | the earth switch and reference current... |
| **SZDCG-UBCH2** SE-UBCH2 | DC insulation monitor for unearthed... | 0 kΩ–10 MΩ across a 100–1000 VDC... | 10–30 VDC, ≤6 W | ±2 V from 0 to 400 VDC, ±0.5 % from 400... |
| **SZDCG-UBCW4K** SE-UBCW4K | DC insulation monitor for unearthed... | 0 kΩ–50 MΩ across a 1000–4000 VDC... | 10–30 VDC; 90 mA at 12 V or 45... | ±2 V from 0 to 400 VDC, ±1 % from 400 to... |
| **SZDCG-UB1K** SE-UB1K | DC insulation monitor for unearthed... | 1 kΩ–10 MΩ across a 100–1000 VDC... | 10–30 VDC | ±2 V from 0 to 400 VDC, ±0.5 % from 400... |
| **SZDCG-UBC1** SE-UBC1 | DC insulation monitor for unearthed... | 0 kΩ–10 MΩ across a 100–1000 VDC... | 10–30 VDC, ≤1.5 W | ±2 V from 0 to 400 VDC, ±0.5 % from 400... |
| **SZDCG-UBCH1** SE-UBCH1 | DC insulation monitor for unearthed... | 1 kΩ–10 MΩ at a 100–1000 VDC system... | 10–30 VDC | ≤2 V +0.3 % |
| **SZDCG-UB100** SE-UB100 | DC insulation monitor for unearthed... | 1 kΩ–1 MΩ across a 10–100 VDC system | 10–30 VDC | ±1 V |
| **SZDCG-UBCS1-250** SE-UBCS1-250 | DC insulation monitor for unearthed... | 0 kΩ–1 MΩ across a 50–250 VDC system | 10–30 VDC; 110 mA at 12 V or 60... | ≤2 V +0.3 % across 50–250 VDC |
| **SZDCG-UBCS1-60** SE-UBCS1-60 | DC insulation monitor for unearthed... | 0 kΩ–1 MΩ across a 10–60 VDC system | 10–30 VDC; 110 mA at 12 V or 60... | ≤2 V across 0–60 VDC |
| **SZIM-DAR-60** SE-GYIM-DAR-2 | DC insulation monitor for unearthed... | 0 kΩ–1 MΩ across a 10–60 VDC system | 10–30 VDC; 120 mA at 12 V or 55... | ≤1 V across 10–60 VDC |

## Battery Indicators

Battery level indicators and gauges for lead-acid, lithium and LiFePO4 packs: LED bar gauges that count charge rather than read voltage, round dial gauges for 12 to 84 V systems, LCD coulomb counters, and BMS displays that read a CAN or...

**12** MODELS

### SE-M01 — SE-M01




| | |
|---|---|
| Display / Type | 1.28-inch colour LCD, 240... |
| Voltage / System | 9–60 VDC, 20–50 mA |
| Mounting / Cut-out | U-bracket and bolts behind... |

### SE-M02 — SE-M02




| | |
|---|---|
| Display / Type | LCD — voltage, state-of-cha... |
| Mounting / Cut-out | Two threaded studs behind... |
| Terminals / Warranty | 12 months |

### SE-M03 — SE-M03




| | |
|---|---|
| Terminals / Warranty | 3 years |

### Complete Selection Matrix — Battery Indicators (12 Models)

| Model / SKU | Display / Type | Voltage / System | Mounting / Cut-out | Terminals / Warranty |
|---|---|---|---|---|
| **SE-M01** SE-M01 | 1.28-inch colour LCD, 240 × 240 px... | 9–60 VDC, 20–50 mA | U-bracket and bolts behind the panel | 12 months |
| **SE-M02** SE-M02 | LCD — voltage, state-of-charge... | — | Two threaded studs behind the panel | 12 months |
| **SE-M03** SE-M03 | A Bluetooth gauge that pairs with the... | — | — | 3 years |
| **SE-BI02** SE-BI02 | 5-digit numeric readout plus a... | 12 VDC; other bank voltages... | U-bracket and bolts behind the panel | V+ 12 V supply, B CANH, 3− CANL... |
| **SE-BI06** SE-BI06 | 10-segment LED bar (2 red, 3 yellow, 4... | 6–100 VDC; high-voltage build... | U-bracket 62 × 25 × 10 mm; Ø60 mm... | V+ battery positive, R+ timer... |
| **SE-BI07** SE-BI07 | 10-segment LED bar, 2 red / 3 yellow /... | 5.0–100 VDC | Flush, two screws; 53 × 32 mm... | + and − supply, P serial... |
| **SE-BI08** SE-BI08 | Lead-acid or lithium | 6–100 VDC | U-bracket behind the panel | V+ battery positive, R shunt... |
| **SE-BI09** SE-BI09 | 10-segment bar (0 – 1) plus a 4-digit... | 5 VDC standard; 12 / 24 / 48 V... | Two M4 × 18 studs at 35 mm centres | 3 years |
| **SE-BI10** SE-BI10 | 10-segment half-arc bar plus a 3-digit... | 6–100 VDC | U-bracket behind the panel, Ø59 mm... | V+ battery positive, 4 battery... |
| **SE-BI11** SE-BI11 | 10-segment LED bar with a 0 – 1 scale | — | Two M4 × 18 studs at 35 mm centres... | Pin 8 positive, pin 5 negative |
| **SE-BI15** SE-BI15 | 10-segment LED bar in four colours... | — | U-bracket and two M4 × 18 studs at... | 3 years |
| **SE-BI17** SE-BI17 | 10-segment bar with a 0 – ½ – 1 scale | — | U-bracket behind the panel, two M4... | 4-pin: V battery positive, 3... |

## How to Specify, Order & Customize

Consolidated procurement across 16 industrial control lines — controller, SSR, heat sink, sensor, timer, contactor and power supply on one Proforma Invoice and in one shipment.

**500+**
OEM MOQ (PCS)

### Information Required for Quotation

- **Exact Model / Series Code:** e.g., REX-C100, SSR-40DA, DH48S-S, CJX2-2510.
- **Supply Voltage & Frequency:** e.g., 100–240 VAC, 220 VAC, 380 VAC, or 24 VDC.
- **Sensor / Control Signal:** e.g., K-type, Pt100, 4–20 mA, 3–32 VDC, or 0–10 V.
- **Output & Load Rating:** Relay contact, SSR drive, 4–20 mA, or rated load current (A / kW).
- **Panel Cut-out / Mounting:** DIN panel size (48×48, 48×96, 72×72, 96×96 mm) or 35 mm DIN rail.
- **Order Quantity & Destination:** Sample / batch qty and preferred Incoterm (EXW / FOB / CIF / DDP).

### OEM & Private-Label Manufacturing

- **Minimum Order Quantity:** Custom branding from 500 pcs per model family.
- **Custom Turnaround:** Printed enclosure, custom packaging, datasheet and test report in 10 working days.
- **Fast-Moving Stock:** Standard models stocked in Beijing for 3–5 working days sample/order dispatch.
- **Warranty Policy:** 3-year replacement warranty on temperature controllers (replaced from stock); 12 months standard warranty across lines.
- **Standard Accessories:** Extruded aluminium SSR heat sinks are supplied as standard parts without private-label printing.

### Primary Industries Served

- Industrial ovens and dryers
- Packaging and sealing machines
- Plastic and injection molding machinery
- Food processing heating equipment
- Heating cabinets and control panels
- Laboratory heating equipment
- Industrial electric heating systems

### Direct Export & Technical Support

- **Website:** https://strong-ele.com (EN / ES / RU portals)
- **Sales & RFQ Email:** sales@strong-ele.com
- **Telephone:** +86 10 52746457
- **WhatsApp (Direct):** +86 15116961291
- **Business Hours:** Mon–Fri, 08:00 – 18:00 (GMT+8)
- **Headquarters:** Block AB, Vantone Center, No. 6 Chaoyangmenwai Street, Chaoyang District, Beijing 100020, China

**VERIFICATION NOTICE**

All technical ratings in this catalog are extracted from Strong Electric's canonical product specification store. For detailed terminal wiring diagrams, panel cut-out drawings, and multi-language instruction manuals (PDF / SVG), visit **strong-ele.com/downloads.html** or request the model datasheet from our engineering desk prior to panel wiring.

# Industrial Temperature, Power & Automation Controls

Since 2005, Beijing Strong Electric Co., Ltd. has supplied industrial heating and panel-control components to OEM machinery builders, electrical distributors, and automation integrators worldwide.

### One-Stop Panel Supply

Sensors, PID controllers, SSRs, SCR modules, timers, counters, contactors, VFDs, and protection relays on one consolidated PI.

### Stock Dispatch in 3–5 Days

Fast-moving standard models stocked in Beijing for rapid sample verification and small-batch dispatch.

### OEM & Private Label

Custom enclosure printing, packaging, and documentation from 500 pcs with consistent industry model markings.


**Beijing Strong Electric Co., Ltd.**

Block AB, Vantone Center, No. 6 Chaoyangmenwai Street,
Chaoyang District, Beijing 100020, China
Business Hours: Mon–Fri, 08:00 – 18:00 (GMT+8)

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Specifications are subject to technical updates without prior notice. Always confirm final terminal labels and wiring diagrams printed on the delivered unit before installation. ·