

TRP 24-230VUC 1CO AGSNO AU ED2 PB**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Similar to illustration

- 1 CO contact
- Contact material: AgSnO AU
- Unique multi-voltage input from 24 to 230 V UC
- Input voltages 24 V DC and 24 V UC with coloured marking: DC: blue, UC: white
- Version with lockable test button for manual switching

General ordering data

| | |
|------------|---|
| Version | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgSnO gold-plated, Rated control voltage: 24...230 V UC $\pm 10\%$, Continuous current: 6 A, PUSH IN, Test button available: Yes |
| Order No. | 2855900000 |
| Type | TRP 24-230VUC 1CO AGSNO AU ED2 PB |
| GTIN (EAN) | 4064675534204 |
| Qty. | 10 pc(s). |

Creation date November 7, 2024 7:40:49 AM CET

Catalogue status 26.10.2024 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 87.8 mm | Depth (inches) | 3.457 inch |
| Height | 89.4 mm | Height (inches) | 3.52 inch |
| Width | 6.4 mm | Width (inches) | 0.252 inch |
| Net weight | 32.61 g | | |

Temperatures

| | | | |
|---------------------|---|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...60 °C |
| Humidity | 5-95% relative humidity, T _u = 40°C, without condensation | | |

Rated data UL

| | | | |
|---|--|------------------------------------|--------------------------|
| Ambient temperature (operational), max. | 60 °C | Output current derating (ohmic) | 6 A @ 50 °C, 5 A @ 60 °C |
| Connection cross-section AWG, min. | AWG 26 | Connection cross-section AWG, max. | AWG 14 |
| Type of conductor | rigid copper conductor, flexible copper conductor | Pollution severity level | 2 |

Control side

| | | | |
|--|--------------------------------------|---------------------------------------|--|
| Rated control voltage | 24...230 V UC ±10 % | Rated current AC | 19.0 mA @ 24 V AC, 3.0 mA @ 230 V AC |
| Rated current DC | 11.0 mA @ 24 V DC, 1.1 mA @ 230 V DC | Power rating | 265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 690 mVA @ 230 V AC |
| Status indicator | Green LED | Protective circuit | Rectifier |
| Coil voltage of the replacement relay deviating from the rated control voltage | Yes | Coil voltage of the replacement relay | 24 V DC |

Load side

| | | | |
|---|----------------------------------|---|---------------------------------------|
| Rated switching voltage | 250 V AC | Continuous current | 6 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, AC | 250 V |
| Max. switching voltage, DC | 250 V | Inrush current | 30 A / 20 ms |
| AC switching capacity (resistive), max. | 1500 VA | DC switching capacity (resistive), max. | 144 W @ 24 V |
| Switch-on delay | ≤ 40 ms | Switch-off delay | ≤ 80 ms |
| Contact type | 1 CO contact (AgSnO gold-plated) | Mechanical service life | 10 x 10 ⁶ switching cycles |
| Min. switching power | 1 mA @ 1 V | | |

General data

| | | | |
|--------------------------------------|---------------------------|----------------|--|
| Operating altitude | ≤ 2000 m, above sea level | | |
| Rail | TS 35 | | |
| Test button available | Yes | | |
| Version of test button | Lockable test button | | |
| Mechanical switch position indicator | No | | |
| Colour | black | | |
| UL94 flammability rating component | Component | Housing | |
| | UL94 flammability rating | V-0 | |
| | Component | Retaining clip | |
| | UL94 flammability rating | V-0 | |
| | Component | Pusher | |
| | UL94 flammability rating | V-0 | |

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Insulation coordination

| | | | |
|--|---------------------------------|---|------------------------------|
| Rated voltage | 300 V | Pollution severity | 2 |
| Surge voltage category | III | Clearance and creepage distances for control side - load side | ≥ 6 mm |
| Dielectric strength for control side - load side | 3.51 kV _{eff} / 1 min. | Type of isolation at input and output | reinforced insulation |
| Dielectric strength of open contact | 1 kV _{eff} / 1 min | Dielectric strength to mounting rail | 4 kV _{eff} / 1 Min. |
| Impulse withstand voltage | 6 kV (1.2/50 µs) | Protection degree | IP20 |

Further details of approvals / standards

| | |
|-------------------------|---------|
| Certificate no. (cULus) | E141197 |
|-------------------------|---------|

Connection data

| | | | |
|---|---------------------|---|----------------------|
| Wire connection method | PUSH IN | Stripping length, rated connection | 9 mm |
| Clamping range, rated connection | 1.5 mm ² | Clamping range, min. | 0.14 mm ² |
| Clamping range, max. | 2.5 mm ² | Wire connection cross section AWG, min. | AWG 26 |
| Wire connection cross section AWG, max. | AWG 14 | Wire cross-section, solid, min. | 0.14 mm ² |
| Wire cross-section, solid, max. | 1.5 mm ² | Wire cross-section, solid, min. (AWG) | AWG 26 |
| Wire cross-section, solid, max. (AWG) | AWG 16 | Wire connection cross section, finely stranded, min. | 0.14 mm ² |
| Wire connection cross section, finely stranded, max. | 2.5 mm ² | Wire cross-section, finely stranded, min. (AWG) | AWG 26 |
| Wire cross-section, finely stranded, max. (AWG) | AWG 14 | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.14 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 1.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.14 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 1.5 mm ² | Blade size | 0.4 x 2.0 mm |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001437 | ETIM 7.0 | EC001437 |
| ETIM 8.0 | EC001437 | ETIM 9.0 | EC001437 |
| ECLASS 9.0 | 27-37-16-01 | ECLASS 9.1 | 27-37-16-01 |
| ECLASS 10.0 | 27-37-16-01 | ECLASS 11.0 | 27-37-16-01 |
| ECLASS 12.0 | 27-37-16-01 | ECLASS 13.0 | 27-37-16-01 |
| ECLASS 14.0 | 27-37-16-01 | | |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9 |

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Technical data

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU declaration of conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | Beipackzettel / Package Insert – multilingual |
| Catalogues | Catalogues in PDF-format |

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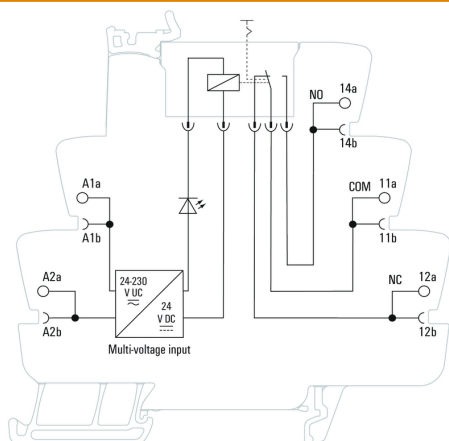
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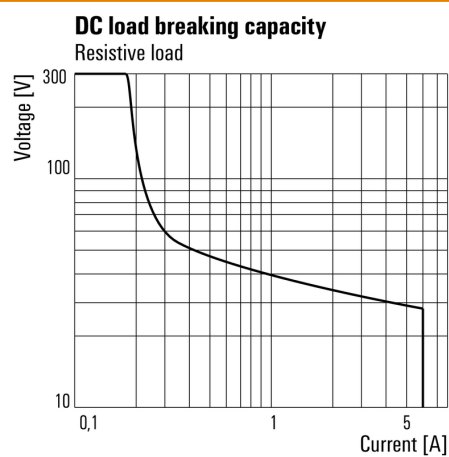
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Drawings

Wiring diagram

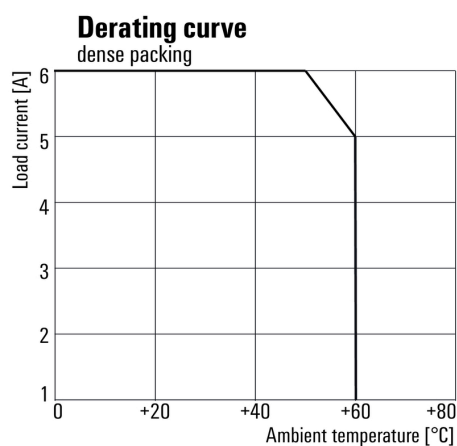


Graph



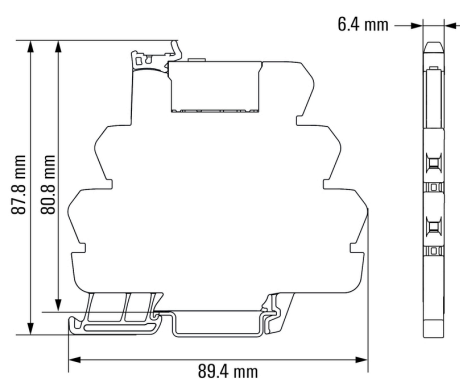
Graph

Derating curve



Electrical service life 230 V AC resistive load
230 V AC resistive load

Dimensional drawing



Miscellaneous

Function of test button

Mode is selected by rotating the orange switch.

The test button can be rotated endlessly.

The groove on the top shows the selected mode.

View from the top:

**Auto Mode:**

Relay contact is controlled by the coil.

**Manual ON:**

Relay is manually switch on without applied coil voltage.
- NO contact is closed

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Accessories

Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SDIS 0.4X2.0X60 | Version |
| Order No. | 2749780000 | Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade |
| GTIN (EAN) | 4050118896527 | thickness (A): 0.4 mm |
| Qty. | 1 pc(s). | |

Supply module



Space-saving supply modules

Our supply terminals enable potentials to be fed at the input – e.g. neutral or minus potentials – or switched potentials to be fed at the output. In conjunction with precisely fitting cross-connections from the TEMR SERIES, the connections for the cables on the relay module remain free for actuators or sensors. No additional feed-through terminal blocks are required, resulting in huge space savings in the panel. At the same time, the wiring is simplified as no double wire-end ferrules are required for the potential feed.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | TXP SUPPLY | Version |
| Order No. | 2618940000 | TERMSERIES, Supply module, Number of contacts: 5, , Continuous |
| GTIN (EAN) | 4050118667592 | current: 10 A, PUSH IN |
| Qty. | 10 pc(s). | |
| Type | TXS SUPPLY | Version |
| Order No. | 1240780000 | TERMSERIES, Supply module, Number of contacts: 5, , Continuous |
| GTIN (EAN) | 4050118028140 | current: 10 A, Screw connection |
| Qty. | 10 pc(s). | |
| Type | TXZ SUPPLY | Version |
| Order No. | 1240790000 | TERMSERIES, Supply module, Number of contacts: 5, , Continuous |
| GTIN (EAN) | 4050118028164 | current: 10 A, Tension-clamp connection |
| Qty. | 10 pc(s). | |

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Accessories

Cross-connections



Adjustable cross-connections

Increase the flexibility of your cross-connections. The TERM SERIES CROSS-CONNECTION (TCC) enables individually adjustable cross-connections with up to 51 poles. The maximum number of pluggable poles has been increased to 32 poles. The strip material can be shortened to the required length very easily. The cross-connectors convince thanks to their easy handling and visibility as well as their universal connection possibilities. An additional web prevents the spring from deforming during assembly.

- Individually adjustable cross-connection with 51 poles
- Additional bar to avoid deformation of the spring
- Increased cross-connection – up to 32 poles possible
- Vibration resistance

General ordering data

| | | |
|------------|----------------------------|-----------------------------|
| Type | TCC 6.4/2 BL | Version |
| Order No. | 2556430000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566949 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/10 BL | Version |
| Order No. | 2556440000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566956 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/10 BK | Version |
| Order No. | 2556480000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566994 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/51 BL | Version |
| Order No. | 2556450000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566963 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/51 BK | Version |
| Order No. | 2556490000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118567007 | |
| Qty. | 10 pc(s). | |
| Type | TCC 12.8/26 RD | Version |
| Order No. | 2556420000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566932 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/10 OR | Version |
| Order No. | 2556360000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566673 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/2 RD | Version |
| Order No. | 2556390000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566901 | |
| Qty. | 10 pc(s). | |

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www.weidmueller.com**Accessories**

| | | |
|------------|----------------------------|-----------------------------|
| Type | TCC 12.8/26 BK | Version |
| Order No. | 2556500000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118567014 | |
| Qty. | 10 pc(s). | |
| Type | TCC 12.8/26 OR | Version |
| Order No. | 2556380000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566697 | |
| Qty. | 10 pc(s). | |
| Type | TCC 12.8/26 BL | Version |
| Order No. | 2556460000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566970 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/2 BK | Version |
| Order No. | 2556470000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566987 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/51 RD | Version |
| Order No. | 2556410000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566925 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/2 OR | Version |
| Order No. | 2556350000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566826 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/51 OR | Version |
| Order No. | 2556370000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566680 | |
| Qty. | 10 pc(s). | |
| Type | TCC 6.4/10 RD | Version |
| Order No. | 2556400000 | TERMSERIES, Cross-connector |
| GTIN (EAN) | 4050118566918 | |
| Qty. | 10 pc(s). | |

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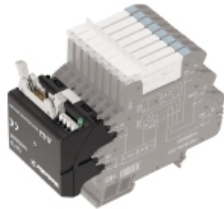
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Accessories

Interface adapters



Faster signal wiring with less space

To reduce wiring times, pre-assembled cables are used between the control system and the interface level and are simply connected to the TERM SERIES adapter. This enables throughput times in electrical cabinet building to be significantly reduced. The adapter has a universal fit and offers a genuine space advantage in interaction with the TERM SERIES products with identical contours.

- Reduced wiring time due to plug-and-play concept with pre-assembled cables
- Can be applied to the input and output sides of the TERM SERIES
- Ready for plus and minus switching logic
- High space-saving due to universal fit to other TERM SERIES products

General ordering data

| | | |
|------------|----------------------------|---|
| Type | TIA F10 | Version |
| Order No. | 1463520000 | TERM SERIES, Adapter, 10-pole plug according to DIN EN 60603-13, |
| GTIN (EAN) | 4050118323535 | long locking lever, Number of signal paths: 8, Rated voltage DC : 24 V, |
| Qty. | 1 pc(s). | Rated current (per signal path): 125 mA |
| Type | TIAL F10 | Version |
| Order No. | 1463540000 | TERM SERIES, Adapter, 10-pole plug according to DIN EN 60603-13, |
| GTIN (EAN) | 4050118323559 | long locking lever, Number of signal paths: 8, Rated voltage DC : 24 V, |
| Qty. | 1 pc(s). | Rated current (per signal path): 125 mA |
| Type | TIAL F20 | Version |
| Order No. | 1463550000 | TERM SERIES, Adapter, 20-pole plug according to DIN EN 60603-13, |
| GTIN (EAN) | 4050118331783 | long locking lever, Number of signal paths: 16, Rated voltage DC : 24 |
| Qty. | 1 pc(s). | V, Rated current (per signal path): 60 mA |
| Type | TIA SUBD 15S | Version |
| Order No. | 1463530000 | TERM SERIES, Adapter, Sub-D, 15-pole, DIN 41652 / IEC 60807, |
| GTIN (EAN) | 4050118323542 | Number of signal paths: 8, Rated voltage DC : 24 V, Rated current (per |
| Qty. | 1 pc(s). | signal path): 125 mA |

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Accessories

Partition plate



Versatile separation plates

Separation plates can be used to group together signals visually, to electrically isolate modules and to insert markings for a better overview. This makes them a particularly versatile accessory. Separation plates increase the clearance and creepage distances between two modules, thus increasing the rated insulation voltage between two modules to up to 600 V. Double separation plates can be marked with WAD5 or WS10/5 markers and enable continuous cross-connections. Installation is made easier with the perforations to individually break out the cross-connection channels.

- Partition plates visually separates groups from each other
- Indentations for individual breaking out the crossconnection channels
- Partition plates isolates between two modules by increasing the clearance and creepage distances of up to 600 V

General ordering data

| | | |
|------------|----------------------------|-----------------------------|
| Type | TW TXS/TXZ R3.2 | Version |
| Order No. | 1240800000 | TERMSERIES, Partition plate |
| GTIN (EAN) | 4050118028188 | |
| Qty. | 10 pc(s). | |

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SDS 0.4X2.0X60 | Version |
| Order No. | 2749260000 | Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade thickness (A): 0.4 mm |
| GTIN (EAN) | 4050118895537 | |
| Qty. | 1 pc(s). | |

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Accessories

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WS 10/6 M MC NE WS | Version |
| Order No. | 1818400000 | WS, Terminal marker, 10 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, |
| GTIN (EAN) | 4032248310876 | Allen-Bradley, white |
| Qty. | 600 pc(s). | |

WS 12/6



WS/ DEK

MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.

Your benefits with MultiMark

- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
- High flexibility thanks to manufacturer independence

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WS 12/6 MM WS | Version |
| Order No. | 2007200000 | WS, Terminal marker, 12 x 6 mm, Weidmueller, white |
| GTIN (EAN) | 4050118391886 | |
| Qty. | 600 pc(s). | |

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Drawings

| | | | | |
|---|--------------------------|--|-------|--|
| T | TERMSERIES | | PB | Test button (lockable) |
| R | Electro mechanical relay | | ED2 | Edition 2 of 24 - 230 V UC control voltage input |
| P | PUSH IN | | Blank | Contact material AgNi |
| S | Screw | | AGSNO | Contact material AgSnO |
| Z | Tension | | 16 A | 16 A output version |
| | | | HC | Output for high inrush currents |
| | | | HCP | HC+ Premaking tungsten contact |
| | | | C1D2 | Class 1 Division 2 approved |
| | | | Blank | No plating |
| | | | AU | Gold plated contact |
| | | | 1CO | 1 Change over / SPDT |
| | | | 2CO | 2 Change over / DPDT |
| | | | 1NO | 1 Normal open / SPST |
| | | | ACT | Special 1 Normal open / SPST |

**Color-marking /
control voltage**

- 5 V DC
- 12 V DC
- 24 V DC
- 24 V UC
- 48 V UC
- 60 V UC
- 120 V UC
- 230 V UC
- 120 V AC RC
- 230 V AC RC
- 24 - 230 V UC

UC = AC/DC

RC = RC-Filter

12