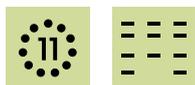
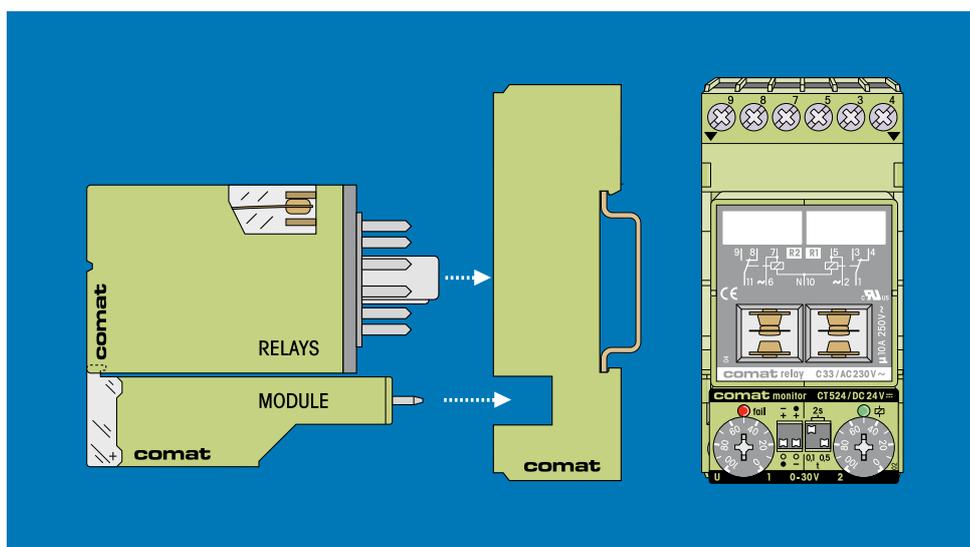


Modular plug-in Monitoring Relays

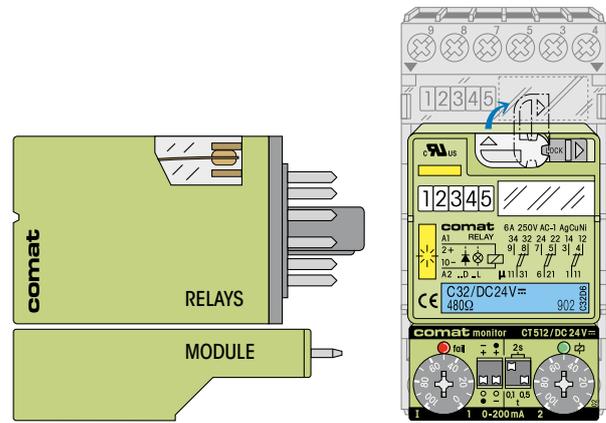


The modular Comat monitoring CT System

The monitoring relays consist of plug-in CT electronic modules and 11-pole output relays. Both system components can be combined in a variety of combinations. This allows adapting the system for the specific application.

Subsequent modifications, for example a change from mechanical contacts to solid-state outputs, are possible at any time just by replacing the relay.

This system provides the user a complete universal system with worldwide unmatched flexibility.



The system sockets C12B0 or C-155 serve as a basis for the secure reception of the electronic modules. The sockets have a 4-pole module slot in which the CT modules lock firmly and vibration proof also without the output relay. Contact is made with reliable twin knife contacts.

With the A2 connector bridge "C-A2", the neutral conductor (N/-) can be connected as a 10A bus from socket to socket. It reduces wiring work considerably. Robust terminals for wires up to 4 mm² and spacious labeling are other advantages of this practical Comat modular system.

Clear markings close to the terminal connections on the sockets make it easy to identify the connections for wiring and servicing.

The CT modules are proof of the practical oriented experiences of Comat in the field of industrial electronics. All control and display elements are arranged easy accessible at all times on the front side of the modules. The functions and settings are self-explanatory schematically illustrated on the front and allow to review the set values also during operation.

A transparent cover over the module setting components provides protection from unintentional settings and additionally links the module to the output relay.

Triggering is performed with the operating voltage. (L1 or +). No potential-free contacts are therefore required. The triggering complies to machine standards. Parallel connection to B1 is admissible.

The output relays show the connection diagram and the technical values on the front side, (exception C3 and C5 relays). A color code indicates an AC coil with red and a DC coil with blue color. Most of the relays have a lockable test button for manual operation.

The standard contacts have proven its reliability for high switching current applications over many years. The contact material AgNi permits a wide switching range and due to the large dimensioning they are designed for a high number of switching cycles. The high breaking capacity of up to 10A/400V and a low load switching capability of 12V/10mA makes the contact suitable for the use in main circuits as well as for low voltage applications.

The twin contacts are switching the voltage circuit with 2 independent contact tongues. The switching safety for low currents is therefore 100 times higher compared to a single contact relay. Despite the high switching capacity of up to 6A/250V, these contacts are very suitable to switch low currents and voltages up to 1mA/6V.

The solid-state relays are an alternative to mechanical relays. In the standard version, the relay has a potential-free universal semiconductor output for AC or DC loads. The advantage is a bouncing- and wear- free, overload resistant, short circuit protected output with a practical unlimited life cycle.

Solid-state relays are specially recommended for applications of high switching cycles, for example for repeat cycle timers, flushing lights, but also for high inductive switching loads of solenoid valves, couplings, motors, etc. The solid state relays are also suitable for capacitive loads, for example long power lines, or compensated lighting circuits.

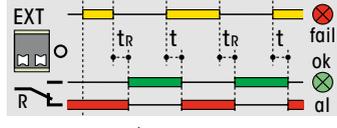
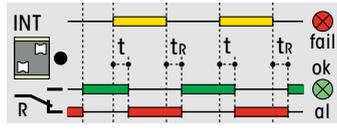
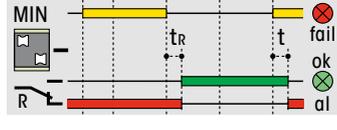
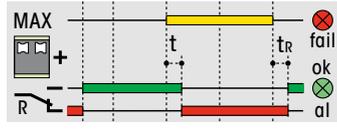
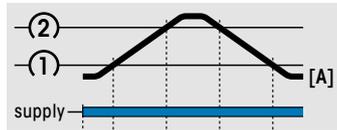
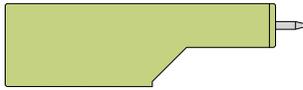
Additional protection circuits of the output or of the load are not necessary in any application for this type of Comat relays.

The solid-state relays are insensitive in any aggressive environment such as chemical plants, sewage plants etc. and are therefore an excellent choice for the employment in such environments.



The train symbol indicates products available in a special railway execution according EN 50155. Please refer to our special railway brochure for details.

Monitoring Module
(without relay and socket)



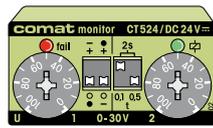
gn ok ye fail rd alarm

Alarm delay t
Reset time t_r

Voltage tolerance
Power consumption
Ambient temperature

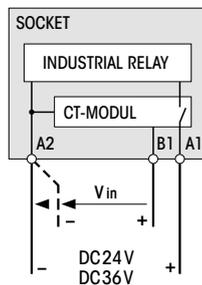
Order Nr.
(for module without Relay and socket)

DC 10%



CT524
DC Voltage Monitoring
Range: 0-30V

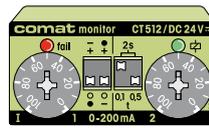
4 functions can be selected: Overvoltage/undervoltage monitoring with adjustable hysteresis or 2 range monitors (INT or EXT). Adjustable alarm delay. LED display for errors and ok. Contact inspection window at the top. Manual safety operation.



Input resistance
B1→A2: 100kΩ

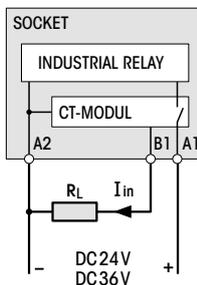
Data at T _{amb.} = 20°C
0,1/0,5/2s
100ms
0,8-1,2Un
≤0,5W
-25...+60°C

CT524/DC24V



CT512
DC Current Monitoring
Range: 0-200 mA

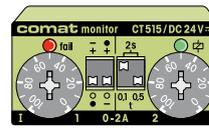
4 functions can be selected: Overcurrent/undercurrent monitoring with adjustable hysteresis or 2 range monitors (INT or EXT). Adjustable alarm delay. LED display for error and ok. Contact inspection window at the top. Manual safety operation.



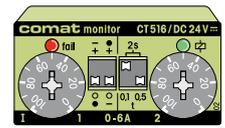
Voltage drop (A1-B1)
CT512: ≤300mV
CT515: ≤200mV
CT516: ≤100mV

Data at T _{amb.} = 20°C
0,1/0,5/2s
100ms
0,8-1,2Un
≤0,5W
-25...+60°C

CT512/DC24V



CT515
DC Current Monitoring
Range: 0-2A



CT516
DC Current Monitoring
Range: 0-6A

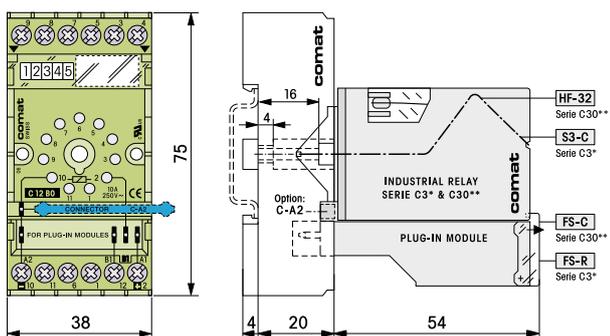
CT515/DC24V

CT516/DC24V



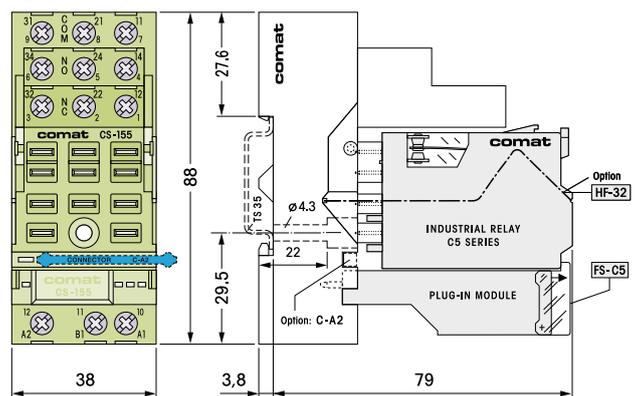
System socket C12B0

Figure: with plug-in neutral conductor connector C-A2

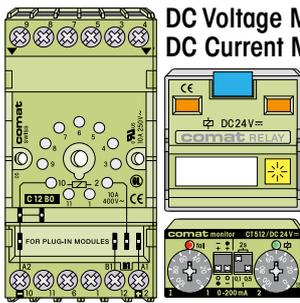


System socket CS-155

Figure: with plug-in neutral conductor connector C-A2



**DC Voltage Monitoring-Set
DC Current Monitoring-Set**



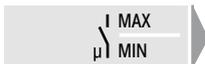
- Set-Delivery includes:
- Relay
 - Module
 - Front cover
 - Socket
 - Retaining clip



Monitoring Module

4 functions can be selected:
Overvoltage/undervoltage monitoring with adjustable hysteresis or 2 range monitors (INT or EXT). Adjustable alarm delay, LED display for errors and ok. Contact inspection window at the top. Manual safety operation.

Relay data's see:
Section industrial Relays

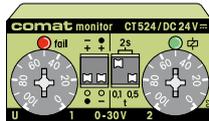


Alarm delay t	0,1/0,5/2s
Reset time tr	100ms
Voltage tolerance	0,8-1,2Un
Power consumption	≤0,5W
Ambient temperature	-25...+60°C

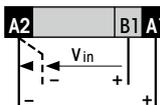
Data at Tamb. = 20°C

**CT524
DC Voltage Monitoring**

Range: **0-30V**
Umax: **40V**



Triggering



Input resistance
B1 → A2: 100kΩ

Set Order-Nr.:

CT524.3-A30/DC24V

Delivery includes:

- Relay C3-A30X/DC24V
- Module CT524/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

Set Order-Nr.:

CT524.3-T31/DC24V

Delivery includes:

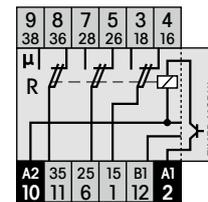
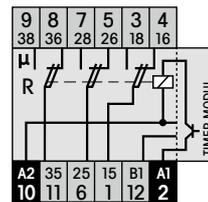
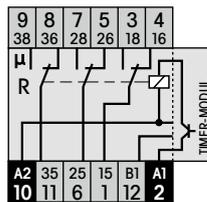
- Relay C3-T31X/DC24V
- Module CT524/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

Set Order-Nr.:

CT524.3-T32/DC24V

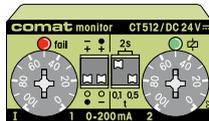
Delivery includes:

- Relay C3-T32X/DC24V
- Module CT524/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

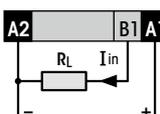


**CT512
DC Current Monitoring**

Range: **0-200mA**
Imax: **300mA**



Triggering



Voltage drop
A1 → B1 ≤ 300mV

Set Order-Nr.:

CT512.3-A30/DC24V

Delivery includes:

- Relay C3-A30X/DC24V
- Module CT512/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

Set Order-Nr.:

CT512.3-T31/DC24V

Delivery includes:

- Relay C3-T31X/DC24V
- Module CT512/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

Set Order-Nr.:

CT512.3-T32/DC24V

Delivery includes:

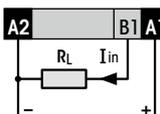
- Relay C3-T32X/DC24V
- Module CT512/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

**CT515 / CT515R
DC Current Monitoring**

Range: **0-2A**
Imax: **3A**



Triggering



Voltage drop
A1 → B1 ≤ 200mV

Set Order-Nr.:

CT515.3-A30/DC24V

Delivery includes:

- Relay C3-A30X/DC24V
- Module CT515/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

Set Order-Nr.:

CT515.3-T31/DC24V

Delivery includes:

- Relay C3-T31X/DC24V
- Module CT515/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

Set Order-Nr.:

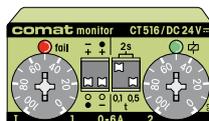
CT515.3-T32/DC24V

Delivery includes:

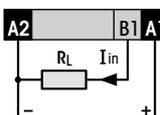
- Relay C3-T32X/DC24V
- Module CT515/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

**CT516
DC Current Monitoring**

Range: **0-6A**
Imax: **7A**



Triggering



Voltage drop
A1 → B1 ≤ 100mV

Set Order-Nr.:

CT516.3-A30/DC24V

Delivery includes:

- Relay C3-A30X/DC24V
- Module CT516/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

Set Order-Nr.:

CT516.3-T31/DC24V

Delivery includes:

- Relay C3-T31X/DC24V
- Module CT516/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

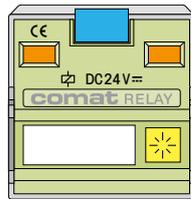
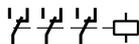
Set Order-Nr.:

CT516.3-T32/DC24V

Delivery includes:

- Relay C3-T32X/DC24V
- Module CT516/DC24V
- Front cover FS-R
- Socket C12B0
- Retaining clip S3-C

Power Relay



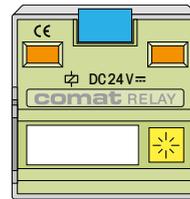
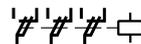
C3-A30X

Universal

Power Relay 10A.
With 3 power changeover-contacts this is the robust relay for AC and DC circuits ranging from 10mA 10V.

10A 250V~
10mA 10V

Control Relay



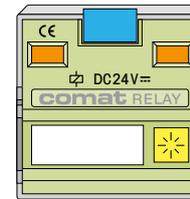
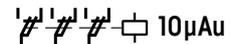
C3-T31X

Relay with 3 twin contacts 6A

The control relay with highest switching reliability for control and signal circuits ranging from 5mA 5V.

6A 250V~
5mA 5V

Signal Relay



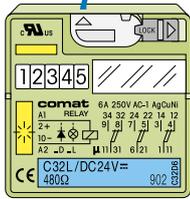
C3-T32X

Relay with 3 twin contacts, 10µ gold flush

The twin contact relay with highest switching reliability for signal circuits ranging from 1mA 5V. Recommend. upto 0,2A 30V.

6A 250V~
1mA 5V

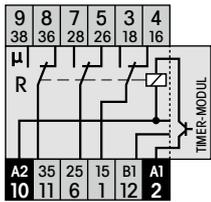
Power Relay



C31L

Universal Power Relay 10A with 3 power changeover-contacts this is the robust relay for AC and DC circuits ranging from 50mA 10V.

10A 250V~
50mA 10V



Set Order-Nr.:

CT524.31/DC24V

Delivery includes:

- Relay C31L/DC24V
- Module CT524/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT512.31/DC24V

Delivery includes:

- Relay C31L/DC24V
- Module CT512/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT515.31/DC24V

Delivery includes:

- Relay C31L/... / C31D/R/...
- Module CT515/... / CT515R/...
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

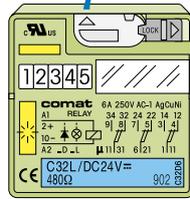
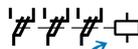
Set Order-Nr.:

CT516.31/DC24V

Delivery includes:

- Relay C31L/DC24V
- Module CT516/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

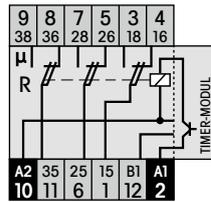
Control Relay



C32L

Relay with 3 twin contacts 6A
The control relay with highest switching reliability for control and signal circuits ranging from 10mA 5V.

6A 250V~
10mA 5V



Set Order-Nr.:

CT524.32/DC24V

Delivery includes:

- Relay C32L/DC24V
- Module CT524/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT512.32/DC24V

Delivery includes:

- Relay C32L/DC24V
- Module CT512/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT515.32/DC24V

Delivery includes:

- Relay C32L/... / C32D/R/...
- Module CT515/... / CT515R/...
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

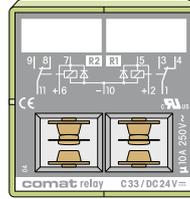
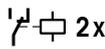
Set Order-Nr.:

CT516.32/DC24V

Delivery includes:

- Relay C32L/DC24V
- Module CT516/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

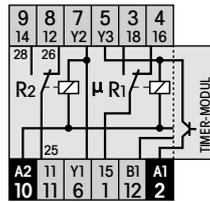
Power Relay



C33

Double-channel Power Relay 10A
With 2x1 power changeover-contacts this is a robust relay for AC and DC circuits ranging from 10mA 12V.

10A 250V~
10mA 12V



Set Order-Nr.:

CT524.33/DC24V

Delivery includes:

- Relay C33/DC24V
- Module CT524/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT512.33/DC24V

Delivery includes:

- Relay C33/DC24V
- Module CT512/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT515.33/DC24V

Delivery includes:

- Relay C33/DC24V
- Module CT515/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

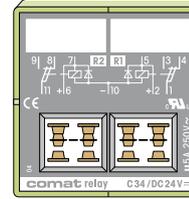
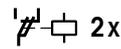
Set Order-Nr.:

CT516.33/DC24V

Delivery includes:

- Relay C33/DC24V
- Module CT516/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

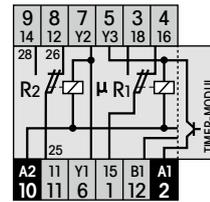
Control Relay



C34

Double-channel Control Relay 5A
With 2x1 changeover-contact. The control relay with increased switching reliability for control and signal circuits from 1mA 6V.

5A 250V~
1mA 6V



Set Order-Nr.:

CT524.34/DC24V

Delivery includes:

- Relay C34/DC24V
- Module CT524/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT512.34/DC24V

Delivery includes:

- Relay C34/DC24V
- Module CT512/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT515.34/DC24V

Delivery includes:

- Relay C34/DC24V
- Module CT515/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

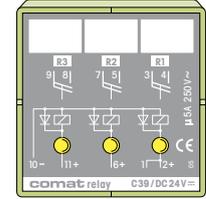
Set Order-Nr.:

CT516.34/DC24V

Delivery includes:

- Relay C34/DC24V
- Module CT516/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

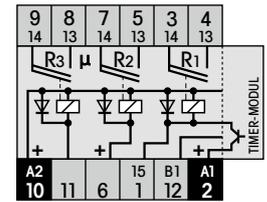
Power- and Signal Relay



C39

Triple-channel Twin Contact Relay 5A
with 3x1 NO contact. Ideal for interface applications ranging from 1mA 100mV. LED display for each channel.

5A 250V~
1mA 100mV



Set Order-Nr.:

CT524.39/DC24V

Delivery includes:

- Relay C39/DC24V
- Module CT524/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT512.39/DC24V

Delivery includes:

- Relay C39/DC24V
- Module CT512/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT515.39/DC24V

Delivery includes:

- Relay C39/DC24V
- Module CT515/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

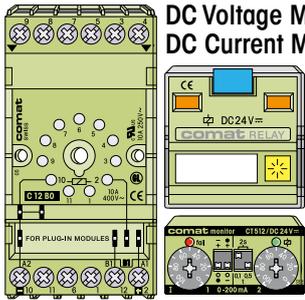
Set Order-Nr.:

CT516.39/DC24V

Delivery includes:

- Relay C39/DC24V
- Module CT516/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

DC Voltage Monitoring-Set
DC Current Monitoring-Set



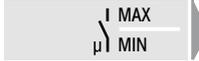
- Set-Delivery includes:
- Relay
 - Module
 - Front cover
 - Socket
 - Retaining clip



Monitoring Module

4 functions can be selected: Overvoltage/undervoltage monitoring with adjustable hysteresis or 2 range monitors (INT or EXT). Adjustable alarm delay, LED display for errors and ok. Contact inspection window at the top. Manual safety operation.

Relay data's see:
Section industrial Relays

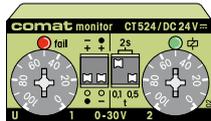


Alarm delay t	0,1/0,5/2s
Reset time t _R	100ms
Voltage tolerance	0,8-1,2U _N
Power consumption	≤0,5W
Ambient temperature	-25...+60°C

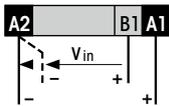
Data at Tamb. = 20°C

CT524
DC Voltage Monitoring

Range: **0-30V**
U_{max}: **40V**



Triggering



Input resistance
B1 → A2: 100kΩ

Set Order-Nr.:

CT524.35/DC24V

Delivery includes:

- Relay C35/DC24V
- Module CT524/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT524.36/DC24V

Delivery includes:

- Relay C36/UC12-240V
- Module CT524/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

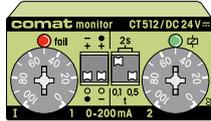
CT524.37/DC24V

Delivery includes:

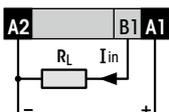
- Relay C37/UC12-240V
- Module CT524/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

CT512
DC Current Monitoring

Range: **0-200mA**
I_{max}: **300mA**



Triggering



Voltage drop
A1 → B1 ≤ 300mV

Set Order-Nr.:

CT512.35/DC24V

Delivery includes:

- Relay C35/DC24V
- Module CT512/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT512.36/DC24V

Delivery includes:

- Relay C36/UC12-240V
- Module CT512/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT512.37/DC24V

Delivery includes:

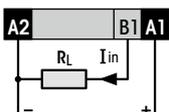
- Relay C37/UC12-240V
- Module CT512/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

CT515 / CT515R
DC Current Monitoring

Range: **0-2A**
I_{max}: **3A**



Triggering



Voltage drop
A1 → B1 ≤ 200mV

Set Order-Nr.:

CT515.35/DC24V

Delivery includes:

- Relay C35/DC24V
- Module CT515/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT515.36/DC24V

Delivery includes:

- Relay C36/UC12-240V
- Module CT515/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

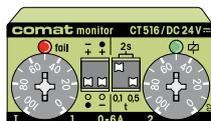
CT515.37/DC24V

Delivery includes:

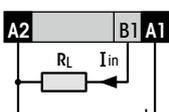
- Relay C37/UC12-240V
- Module CT515/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

CT516
DC Current Monitoring

Range: **0-6A**
I_{max}: **7A**



Triggering



Voltage drop
A1 → B1 ≤ 100mV

Set Order-Nr.:

CT516.35/DC24V

Delivery includes:

- Relay C35/DC24V
- Module CT516/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT516.36/DC24V

Delivery includes:

- Relay C36/UC12-240V
- Module CT516/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

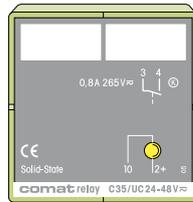
CT516.37/DC24V

Delivery includes:

- Relay C37/UC12-240V
- Module CT516/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

UC Solid-State Relay

1x

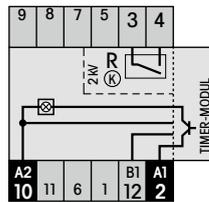


C35

Universal Solid-State Relay for AC or DC load

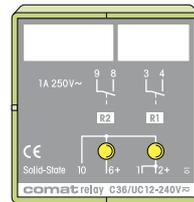
Highest switching frequency for virtually limitless life cycle due to solid-state operation. No external protective wiring required.

0,8A 10...265V~
1mA 10V



AC Solid-State Relay

2x

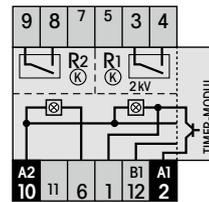


C36

AC SS double-channel

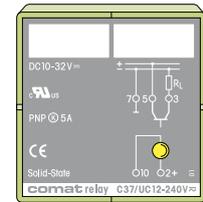
Triac output, crossover switch. Built-in RC wiring protection. Specially designed for frequent switching cycles and inductive loads. Minimum load: 30mA

0,8A 20...265V~
30mA 20V



DC Solid-State Relay

1x

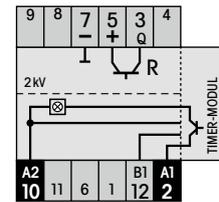


C37

DC SS single-channel

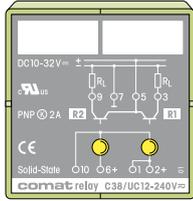
Bounce- and wearing- free for DC loads (inductive/capacitive). Short-circuit/overload proof. No external wiring protection required.

5A 10...32V=
1mA 10V



DC Solid-State Relay

 2x

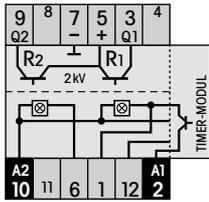


C38

DC SS Relay double-channel
Bounce- and wearing- free for DC loads (inductive/capacitive). Short-circuit/overload proof. No external wiring protection required. 2A constant current per channel.

2A 10...32V=

1mA 10V



Set Order-Nr.:

CT524.38/DC24V

Delivery includes:

- Relay C38/UC12-240V
- Module CT524/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT512.38/DC24V

Delivery includes:

- Relay C38/UC12-240V
- Module CT512/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

CT515.38/DC24V

Delivery includes:

- Relay C38/UC12-240V
- Module CT515/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

Set Order-Nr.:

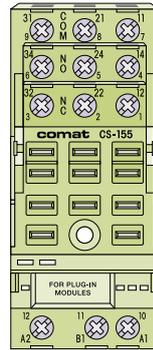
CT516.38/DC24V

Delivery includes:

- Relay C38/UC12-240V
- Module CT516/DC24V
- Front cover FS-C
- Socket C12B0
- Retaining clip HF-32

comat
CT-System 

DC Voltage Monitoring-Set DC Current Monitoring-Set



Set-Delivery includes:

- Relay
- Module
- Front cover
- Socket
- Retaining clip



High Power Relay DC

 16A 400V~



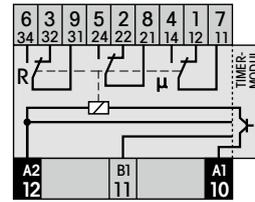
C5-A30X

Universal Power Relay 16A

With 3 power changeover-contacts this is the robust relay for AC and DC circuits ranging from 10mA 10V.

16A 400V~

10mA 10V



Set Order-Nr.:

CT524.5-A30/DC24V

Delivery includes:

- Relay C5-A30/DC24V
- Module CT524/DC24V
- Front cover FS-C5
- Socket CS1-55
- Retaining clip HF-32

Set Order-Nr.:

CT512.5-A30/DC24V

Delivery includes:

- Relay C5-A30/DC24V
- Module CT512/DC24V
- Front cover FS-C5
- Socket CS-155
- Retaining clip HF-32

Set Order-Nr.:

CT515.5-A30/DC24V

Delivery includes:

- Relay C5-A30/DC24V
- Module CT515/DC24V
- Front cover FS-C5
- Socket CS-155
- Retaining clip HF-32

Set Order-Nr.:

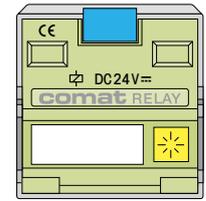
CT516.5-A30/DC24V

Delivery includes:

- Relay C5-A30/DC24V
- Module CT516/DC24V
- Front cover FS-C5
- Socket CS-155
- Retaining clip HF-32

High Power Relay DC

 10A @ 220V=

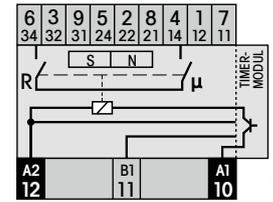


C5-M10X

Highpower Relay, in particular for DC loads upto 10A 220V= (DC1)
With 2 NO contacts in series and a blow magnet for safe arc extinguishing.

16A 400V~

10mA 10V



Set Order-Nr.:

CT524.5-M10/DC24V

Delivery includes:

- Relay C5-M10/DC24V
- Module CT524/DC24V
- Front cover FS-C5
- Socket CS-155
- Retaining clip HF-32

Set Order-Nr.:

CT512.5-M10/DC24V

Delivery includes:

- Relay C5-M10/DC24V
- Module CT512/DC24V
- Front cover FS-C5
- Socket CS-155
- Retaining clip HF-32

Set Order-Nr.:

CT515.5-M10/DC24V

Delivery includes:

- Relay C5-M10/DC24V
- Module CT515/DC24V
- Front cover FS-C5
- Socket CS-155
- Retaining clip HF-32

Set Order-Nr.:

CT516.5-M10/DC24V

Delivery includes:

- Relay C5-M10/DC24V
- Module CT516/DC24V
- Front cover FS-C5
- Socket CS-155
- Retaining clip HF-32



Kühn Controls AG

Notes:

You want more information about this product, please call us: tel: +49 (0)7082-940000 or send us a fax: +49 (0)7082-940001, or email: sales@kuehn-controls.de or visit our Website: www.kuehn-controls.de