

CIM32R**Multifunction | 24 ... 240 V UC | 1 Triac****Time data**

Timing functions	fig. 1 2: F, Q, G 3: I, P, H
Timing range	50 ms ... 0.6 s / 0.5 s ... 6 s / 5 s ... 60 s / 0.5 min ... 6 min / 5 min ... 60 min / 0.5 h ... 6 h / 5 h ... 60 h
Timing scale	0.6 s / 6 s / 60 s / 6 min / 60 min / 6 h / 60 h

Main circuit

Number of outputs	⚡ 1 NO
Output type	Triac, zero crossing
Rated voltage	250 V AC
Switching at zero crossing	yes ($t_d > 0.6$ s)
Rated current	2 A
Minimum load	50 mA, 12 V
Inrush current	100 A, 10 ms
Rated limit load	78 A ² s
Typ. leakage current	1 mA
Rated load AC-1	300 VA
Mechanical endurance (cycles)	∞
Electrical endurance at rated load AC-1 (cycles)	∞

Control circuit

Nominal voltage	24 ... 240 V UC
Operating voltage range	16.8 ... 250 V UC
Power consumption AC / DC	1.2 VA / 430 mW
Current consumption on supply A1-A2 AC / DC	< 23 mA / < 23 mA
Current consumption on input control B1 AC / DC	< 22 mA / < 22 mA
Threshold voltage on input control B1 AC / DC	13 V / 15 V
Rated frequency	0; 16 ... 63 Hz

Insulation

Rated test voltage AC / DC	2.5 kV rms / 1 min
Pollution degree	2
Overvoltage category	III

General data

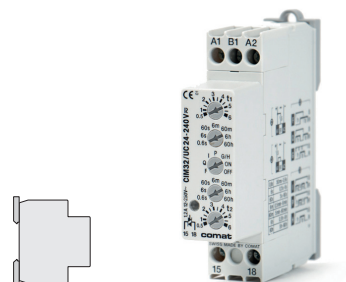
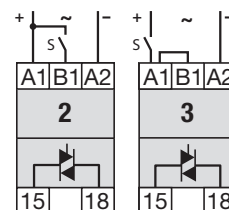
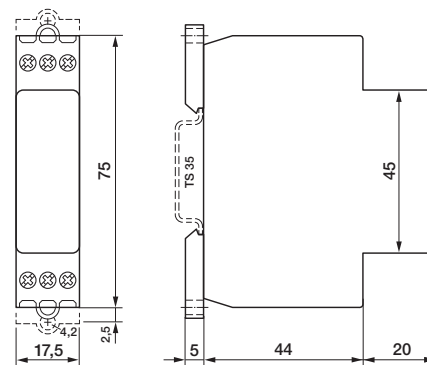
Ambient temperature storage (no ice)	-40 ... 85 °C
Ambient temperature operation	-40 ... 70 °C
Conductor cross section	2.5 mm ² , 2 x 1.5 mm ²
Nominal screw torque	0.4 Nm
Dimensions	fig. 2
Weight	70 g
Protection degree	IP 20
Housing material	PC

Product reference

Description	Type	24-240
UC supply, Railway version	CIM32R/UC...V	✓

Other voltages on request. Please contact support@comatreleco.com.

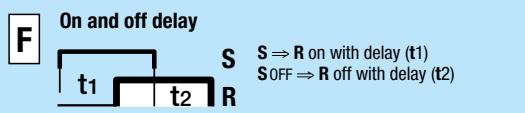
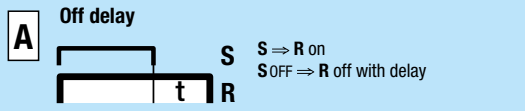
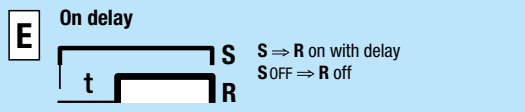
«...» list control circuit voltage to complete product references.

**fig. 1. Wiring diagram****fig. 2. Dimensions (mm)****Standards and approvals**

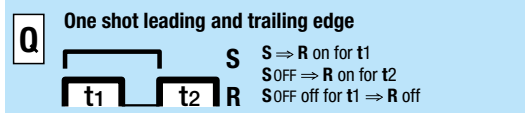
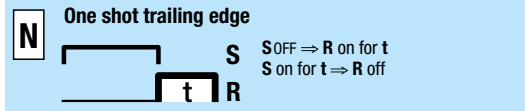
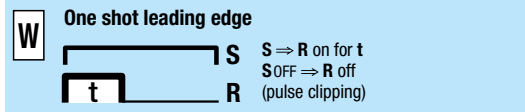
Standards	IEC/EN 60947;
Railway standards	EN 50155; EN 45545-2

Approvals 

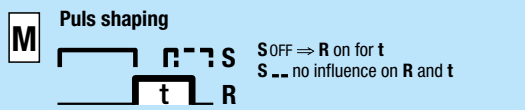
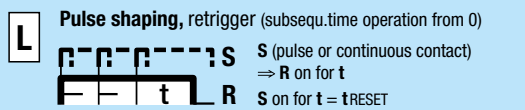
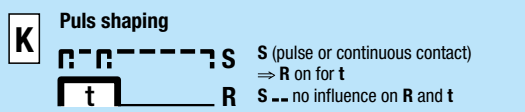
Delay functions



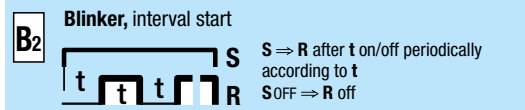
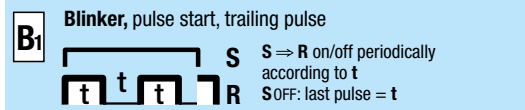
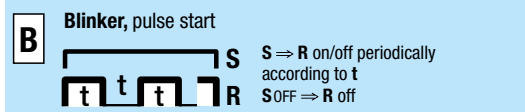
Shot timing modes



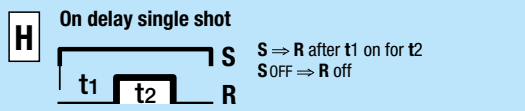
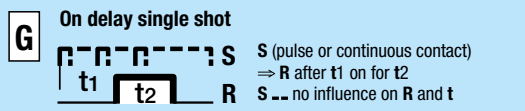
Puls shaping



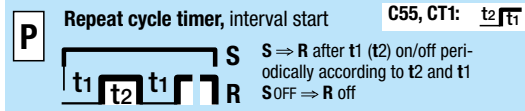
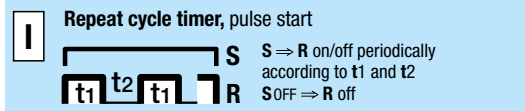
Blinker functions



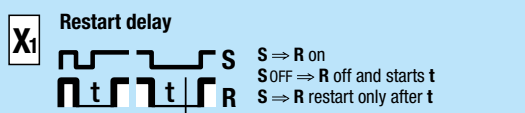
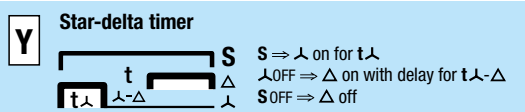
Delayed pulse



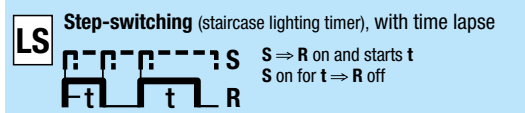
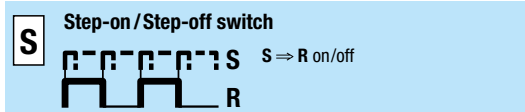
Repeat cycle timer



Special functions



Special functions



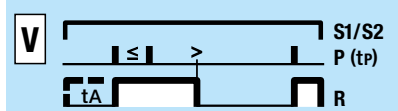
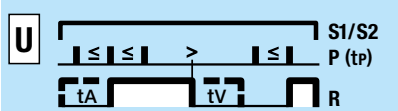
Stop / Reset



S = Triggering
R = Output circuit
⇒ = switches...



Pulse sequence monitoring



S1/S2 = Monitoring start
P = Pulse sequence
tp = Pulse separation

≤: Pulse separation is **smaller** than the time tp
>: Pulse separation is **larger** than the time tp

Start with S1 = **without** start-up short-out t_A
Start with S2 = start-up short-out t_A

t_v = settable alarm delay
delay (t_A = t_v)

Time Cubes



Type	Function																			t-Stop	t-Reset	Ext. Poti	t max.				Page			
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	X ₁				U	V	sec	min		h	d	
CT...E 30	•																									30				229
CT...A 30		•																								30				229
CT...K 30					•			•																		30				229
CT...B 30									•																	30				229

Modular plug-in Time Relays (CT-System)



Type	Function																			t-Stop	t-Reset	Ext. Poti	t max.				Page		
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	X ₁				U	V	sec	min		h	d
CT32...	•	•			•	•			•	•														60*					233
CT33...	•	•	△		•	•	△		•	•				▲	▲											60*			234
CT36...																	•	•								60*			235

Plug-in Time Relays



Type	Function																			t-Stop	t-Reset	Ext. Poti	t max.				Page			
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	X ₁				U	V	sec	min		h	d	
C55	•	•	•	•	•	•	•		•	•				•	•	•	•					•	•	•	•			60	210	
C55.3	•	•	•	•	•	•	•		•	•				•	•	•	•					•	•	•	•			60	211	
C55.4	•	•	•	•	•	•	•		•	•				•	•	•	•					•	•	•	•			60	212	
C56	•	•	•	•	•	•	•		•	•				•	•	•	•					•	•	•	•			60	213	
C64	■	■	■		■																					20			214	
CS2	•	•			•	•			•	•															•				60*	217
CS3	•	•			•	•			•	•																60*			218	
RS 41-M	•	•			•	•			•	•																15			219	

Plug-in Time Relays



Type	Function																			t-Stop	t-Reset	Ext. Poti	t max.				Page		
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	X ₁				U	V	sec	min		h	d
C83	•	•	△		•	•	△		•	•				▲	▲											60*			215
C85			•			•								•	•	•	•									60*			216

DIN Time Relays



Type	Function																			t-Stop	t-Reset	Ext. Poti	t max.				Page			
	E	A	F	W	N	Q	K	L	M	B	B ₁	B ₂	G	H	I	P	S	LS	Y				U	V	sec	min		h	d	
AA2 - AA2M	•																							1,5/12					170	
AE2 - AE2M	•																							1,5/12					171	
AL1								•																					195	
AL3								•									•	•						60					196	
AL4								•									•	•						60					197	
AL5																	•												198	
AM1	•				•					•		•												60					199	
AM2	•	•			•			•																60					200	
AM3 ¹⁾	•	•			•			•																60					201	
CM2	•	•			•			•																		12			202	
CM3	•	•			•			•			•															60*			203	
CMD11 A	•																												168	
CMD11 E	•																												169	
CIM1	•	•			•			•			•						•	•								60*			176	
CIM12	•	•			•			•			•						•	•								60*			178	
CIM13	•	•			•			•			•						•	•								60*			180	
CIM14	•	•			•			•			•						•	•								60*			182	
CIM2	•	•						•					•	•												60*			183	
CIM22	•	•						•				•	•													60*			185	
CIM23	•	•						•				•	•													60*			187	
CIM3			•			•							•	•		•	•									60*			189	
CIM32			•			•							•	•		•	•									60*			191	
CIM33			•			•							•	•		•	•									60*			193	
CRV4	•	•	△		•	•	△		•	•	•		•	•			•	•							•				60*	205
CSV4	•	•	△		•	•	△		•	•	•		•	•			•	•							•				10*	206
CPF11			•					•	•														0,6						204	
CY1	•																			•									208	

* TF-60 Setting of long times

The TF60 time setting method permits short examination of long delay time settings. Elapsing times of hours can be monitored in the sec. range.

Example for a delay time of 38h:

1. Set range switch to 60sec
2. Set 38sec on the potentiometer (e.g. check 38sec by chronometer)
3. Set range switch to 60h

The delay time now amounts to 38h.

- ¹⁾ alternatively with instantaneous contact
- without auxiliary voltage (relay bistable)
 - without auxiliary voltage (relay monostable)
- △ t₂ = t₁
▲ t₂ = 0.5s