

# CIM13R

Multifunction | 24 ... 240 V UC | 1 MOSFET



### Time data

Timing functions	fig. 1 1: E 2: A, K, N, B1, S, LS 3: B, W
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	MOSFET
Rated voltage	24 V DC
Rated current	5 A
Minimum load	1 mA, 1 V
Inrush current	40 A, 10 us
Typ. leakage current	10 µA
Mechanical endurance (cycles)	∞
Electrical endurance at rated load DC-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 control / main circuit	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 <sup>2</sup> , 2 x 1.5 mm <sup>2</sup>
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	CIM13R/UC...V	✓

Other voltages on request. Please contact support@comatreleco.com.  
«...» list control circuit voltage to complete product references.

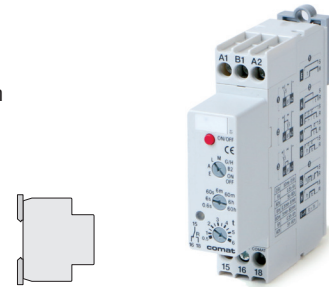


fig. 1. Wiring diagram

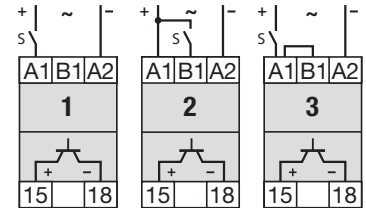
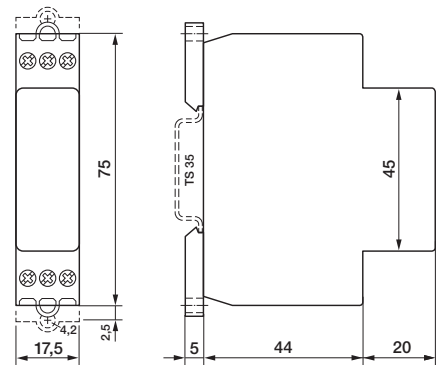


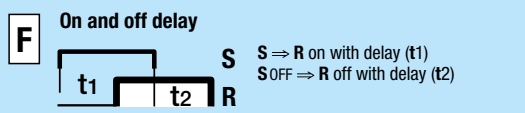
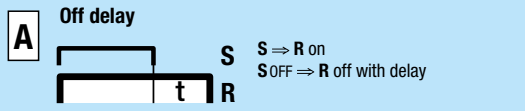
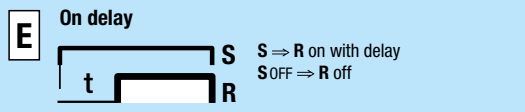
fig. 2. Dimensions (mm)



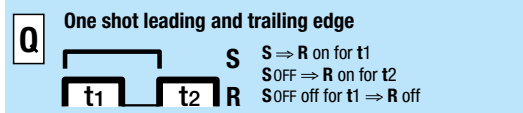
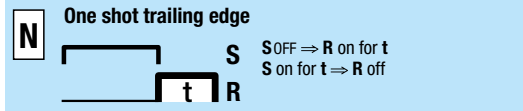
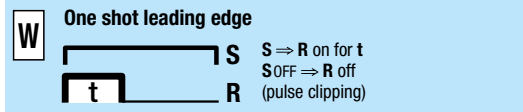
### Standards and approvals

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

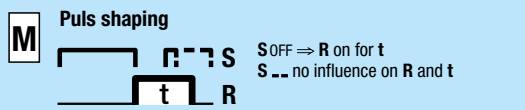
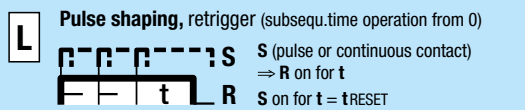
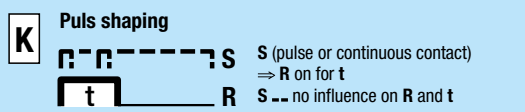
## Delay functions



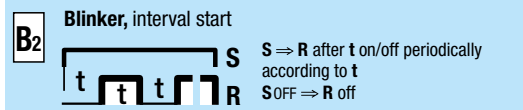
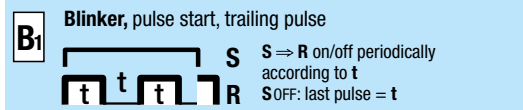
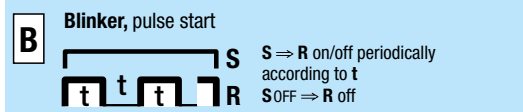
## Shot timing modes



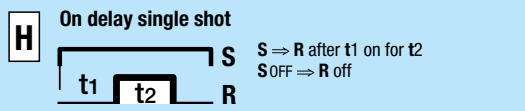
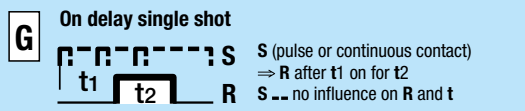
## Puls shaping



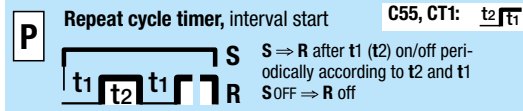
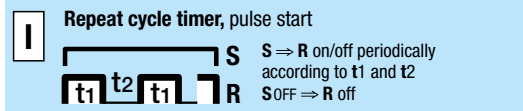
## Blinker functions



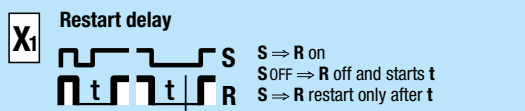
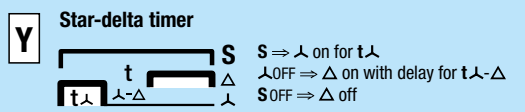
## Delayed pulse



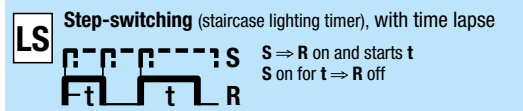
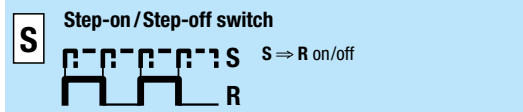
## Repeat cycle timer



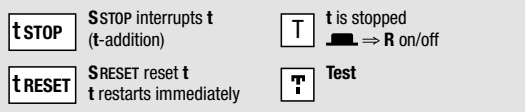
## Special functions



## Special functions



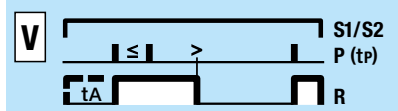
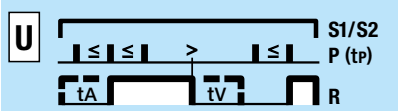
## Stop / Reset



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<sub>A</sub>  
Start with S2 = start-up short-out t<sub>A</sub>

t<sub>v</sub> = settable alarm delay  
delay (t<sub>A</sub> = t<sub>v</sub>)

