



## Multifunction | 24 ... 48 V UC | 110 V DC

## Time data

Timing functions	fig. 1 2: E, A, K, N, B1 3: E, W, B
Timing range	1.5 s / 6 s / 15 s / 60 s / 1.5 min / 6 min / 15 min / 60 min
Timing scale	0.15 s ... 60 min

## Control circuit

Nominal voltage	24 ... 48 V UC	110 V DC
Operating voltage range	19 ... 60 V	77 ... 138 V
Power consumption AC / DC	0.3 VA / 0.3 W	- / 0.3 W
Typ. threshold voltage on command input AC / DC	9 V	60 V

## General data

Ambient temperature storage	-40 ... 85 °C
Ambient temperature operation railway version	-40 ... 70 °C
Module width	fig. 2
Weight	25 g
Protection degree	IP 20
Housing material	PC

## Product references

Types	Product reference	24-48 110
DC supply	CT32R/DC...V	✓
UC supply	CT32R/UC...V	✓

"..." list control circuit voltage to complete product references.

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

## Accessories

Sockets	S3-M0, S5-M
Transparent front cover	FS-C



fig. 1. Wiring diagram

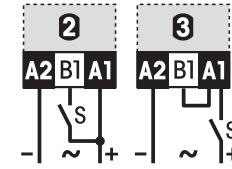
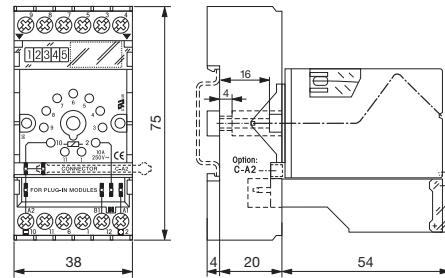


fig. 2. Dimensions (mm)



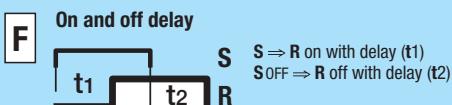
## Standards and approvals

Standards IEC/EN 50155

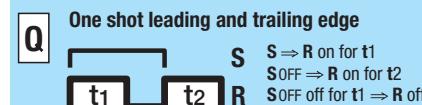
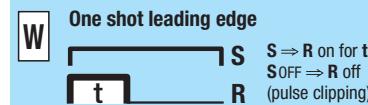
Approvals CE EAC cULus

# Time functions

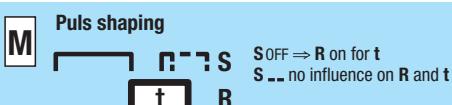
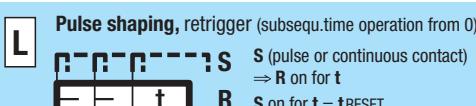
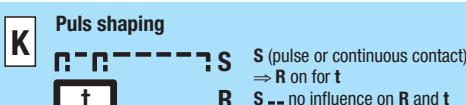
## Delay functions



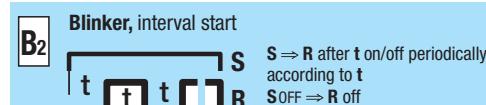
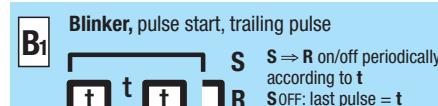
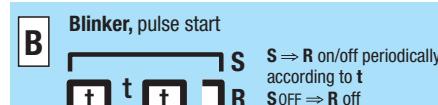
## Shot timing modes



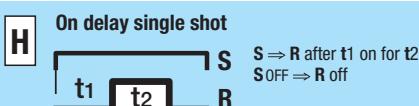
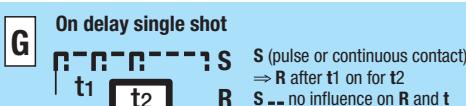
## Puls shaping



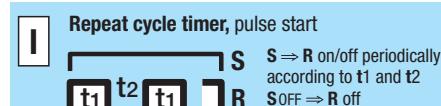
## Blinker functions



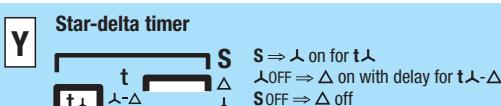
## Delayed pulse



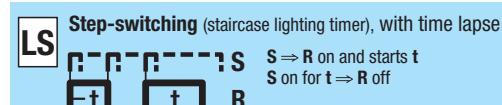
## Repeat cycle timer



## Special functions



## Special functions



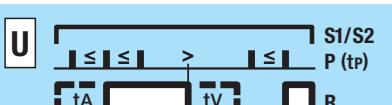
## Stop/Reset



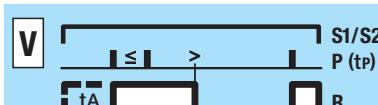
S = Triggering  
R = Output circuit  
=> switches...

ON OFF

## Pulse sequence monitoring



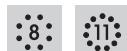
$\leq$ : Pulse separation is smaller than the time tp  
 $>$ : Pulse separation is larger than the time tp



Start with S1 = without start-up short-out tA  
Start with S2 = start-up short-out tA

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

tv = settable alarm delay  
delay (tA - tv)

**Time Cubes**


Type	Function															t max.	Ext. Poli									
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P	S	LS	X1	U	V	I-Stop	I-Reset			
																						sec	min	h	d	Page
CT..-E 30	●																							30		203
CT..-A 30		●																						30		203
CT..-K 30				●			●																30		203	
CT..-B 30										●													30		203	

**Modular plug-in Time Relays  
(CT-System)**


Type	Function															t max.	Ext. Poli									
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P	S	LS	X1	U	V	I-Stop	I-Reset			
																						sec	min	h	d	Page
CT32...	●	●		●	●	●	●	●		●	●											60*		209		
CT33...	●	●	△	●	●	△	●	●		●	●		▲	▲								60*		210		
CT36...													●	●									60*		211	

**Plug-in Time Relays**


Type	Function															t max.	Ext. Poli									
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P	S	LS	X1	U	V	I-Stop	I-Reset			
																						sec	min	h	d	Page
C55	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				60	186	
C55.3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				60	187	
C55.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				60	188	
C56	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				60	189	
C64	■			■																			20		190	
CS2	●	●		●	●		●			●	●											●		60*	193	
CS3	●	●		●	●		●			●	●												●	60*	194	

**Plug-in Time Relays**


Type	Function															t max.	Ext. Poli									
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P	S	LS	X1	U	V	I-Stop	I-Reset			
																						sec	min	h	d	Page
C83	●	●	△	●	●	△	●	●		●	●		▲	▲								60*		191		
C85			●		●		●						●	●	●	●							60*		192	

**DIN Time Relays**


Type	Function															t max.	Ext. Poli									
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P	S	LS	Y	U	V	I-Stop	I-Reset			
																						sec	min	h	d	Page
AA2 - AA2M	●																					1,5/12			154	
AE2 - AE2M	●																					1,5/12			155	
AL1								●																	170	
AL3								●																	60	171
AL4								●																	60	172
AL5								●																	60	173
AM1	●			●						●	●														60	174
AM2	●	●		●			●																		60	175
AM3 <sup>1)</sup>	●	●		●			●																		60	176
CM2	●	●		●			●																		12	177
CM3	●	●		●	●		●			●	●													60*	178	
CMD11 A	●																									152
CMD11 E	●																									153
CIM1	●	●		●	●		●			●	●													60*	160	
CIM12	●	●		●	●		●			●	●													60*	161	
CIM13	●	●		●	●		●			●	●													60*	162	
CIM14	●	●		●	●		●			●	●													60*	163	
CIM2	●	●					●	●		●	●													60*	164	
CIM22	●	●					●	●		●	●													60*	165	
CIM23	●	●					●	●		●	●													60*	166	
CIM3	●			●						●	●													60*	167	
CIM32	●			●						●	●													60*	168	
CIM33	●			●						●	●													60*	169	
CRV4	●	●	△	●	●	△	●	●	●	●	●					●	●					●	60*	180		
CSV4	●	●	△	●	●	△	●	●	●	●	●					●	●					●	10*	181		
CPF11	●																						0.6		179	
CY1																●									184	

<sup>1)</sup> alternatively with instantaneous contact