

**CPU**

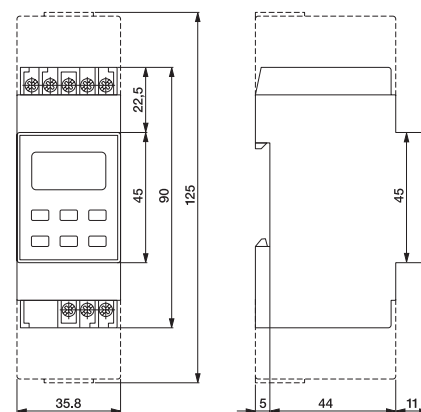
**Digital Timer 16 A / 230 V AC-1**



Type	CPU 35WU-JS	CPU 35W2U-JS	CPU 35WU-LCD	CPU 35W2U-LCD
	Digital Weekly Menu-guided timer, multilingual	Digital Weekly Timer menu-driven, two-channel, multilingual	Digital Weekly timer	Digital Weekly Timer two-channel
Time program	Week, cycle and random program Permanent operation and holiday program   pulse 1...99 s   Automatic leap year correction   Hour meter and maintenance program   External input for switch or button		Week	Week
Memory Spaces	64	64	20	20
Shortest switching time	1 min	1 min	1 sec	1 sec
Summer/winter time changeover	automatic	automatic	automatic	automatic
Power backup	6 Years	6 Years	15 Days	15 Days
Number of contacts	1	2	1	2
Load AC-1	16 A / 230 V	16 A / 230 V	16 A / 230 V	16 A / 230 V
Operating voltage	230 V AC	230 V AC	230 V AC	230 V AC
Operating temperature	0...+50 °C	0...+50 °C	-10...+50 °C (No ice)	-10...+50 °C (No ice)



**Dimension (mm)**



**Specifications**

Protection degree	IP 20
Weight	163 g

**Product reference**

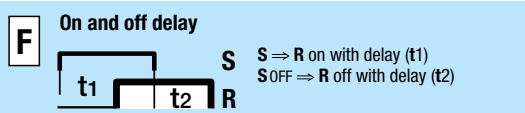
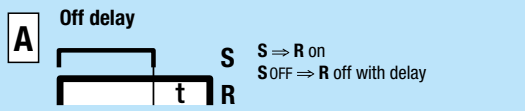
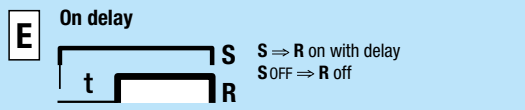
Description	Type	230
AC 230 V	CPU 35 WU-JS/AC...V	✓
AC 230 V	CPU 35 W2U-JS/AC...V	✓
AC 230 V	CPU 35 WU-LCD/AC...V	✓
AC 230 V	CPU 35 W2U-LCD/AC...V	✓

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

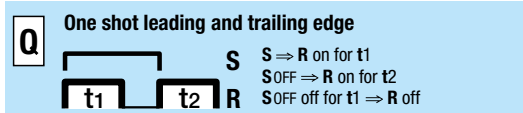
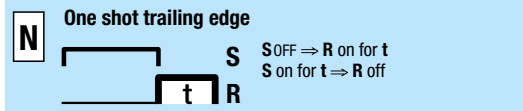
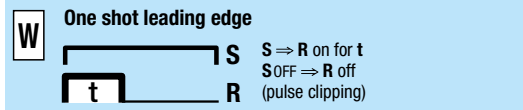
**Approvals**



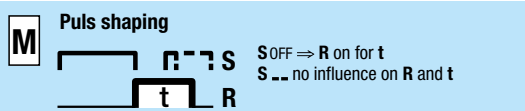
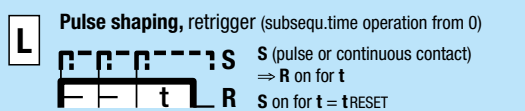
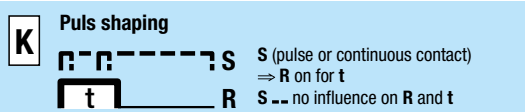
## Delay functions



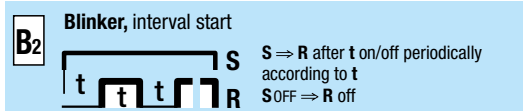
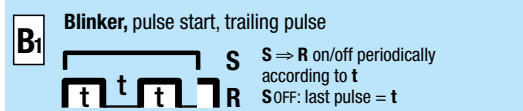
## Shot timing modes



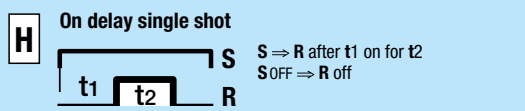
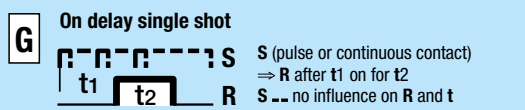
## Puls shaping



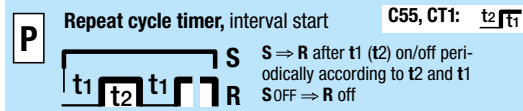
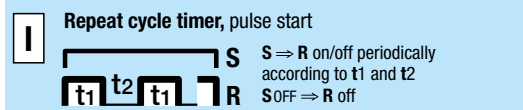
## Blinker functions



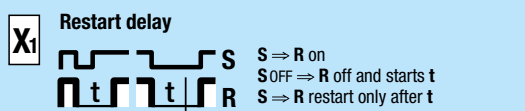
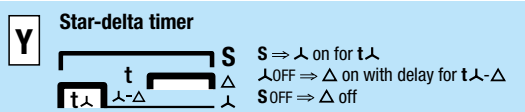
## Delayed pulse



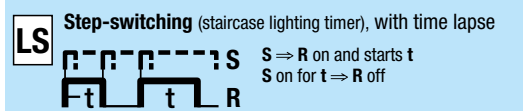
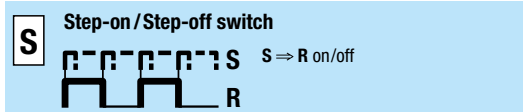
## Repeat cycle timer



## Special functions



## Special functions



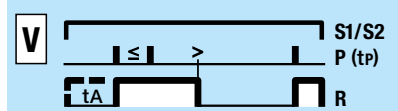
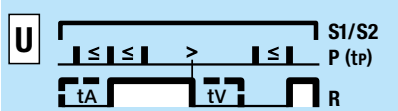
## Stop / Reset



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



## Pulse sequence monitoring



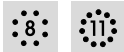
S1/S2 = Monitoring start  
P = Pulse sequence  
tp = Pulse separation

≤: 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>)

### Time Cubes



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page																		
	E	A	F	W	N	Q	K	L	M	B	B <sub>1</sub>	B <sub>2</sub>	G	H	I	P				S	LS	X <sub>1</sub>	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 <sub>1</sub>	B <sub>2</sub>	G	H	I	P				S	LS	X <sub>1</sub>	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 <sub>1</sub>	B <sub>2</sub>	G	H	I	P				S	LS	X <sub>1</sub>	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 <sub>1</sub>	B <sub>2</sub>	G	H	I	P				S	LS	X <sub>1</sub>	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 <sub>1</sub>	B <sub>2</sub>	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 <sup>1)</sup>	•	•		•			•																															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.

- <sup>1)</sup> alternatively with instantaneous contact
- without auxiliary voltage (relay bistable)
  - without auxiliary voltage (relay monostable)
- △ t<sub>2</sub> = t<sub>1</sub>
- ▲ t<sub>2</sub> = 0.5s