

AL3
Staircase switch | Auto - ON | 24 V UC | 220 ... 240 V AC | 1 NO, pre-contact
Time data

Timing functions	L, LS, S
Timing range	30 s - 60 min
Timing scale	6 min / 60 min

Main circuit

Number of contacts	⚡ 1 NO
Contact material	W + AgSnO ₂
Rated voltage	250 V
Rated current	10 A
Minimum load	10 mA, 12 V
Inrush current	600 A, 2.5 ms / 120 A, 20 ms
Rated load DC	210 W, 30 V
Rated load AC-1	2500 VA
Mechanical endurance (cycles)	5 000 000
Electrical endurance at rated load AC-1 (cycles)	5 000

Control circuit

Nominal voltage	24 V UC	220 ... 240 V AC
Operating voltage range	19.2 ... 30 V UC	187 ... 265 V AC
Power consumption AC / DC	2.5 VA / 2.5 VA	2.5 VA / -
Current consumption on supply A1-A2 AC / DC	< 130 mA / < 130 mA	< 13 mA / -
Current consumption on input control B1 AC / DC	< 500 mA / < 500 mA	< 120 mA / -
Threshold voltage on input control B1 AC / DC	9 ... 18 V / 9 ... 18 V	130 ... 175 V / -
Rated frequency	0; 48 ... 62 Hz	48 ... 62 Hz

Insulation

Rated test voltage control / main circuit	2.5 kV rms / 1 min
Rated test voltage open contact	2.5 kV rms / 1 min
Pollution degree	2
Overvoltage category	III

General data

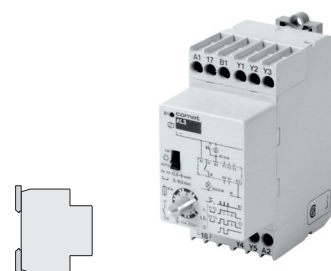
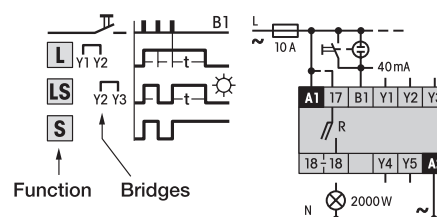
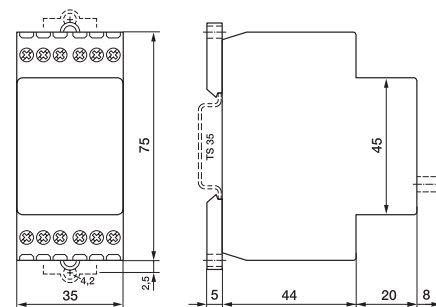
Ambient temperature storage (no ice)	-40 ... 85 °C
Ambient temperature operation	-25 ... 60 °C
Conductor cross section	2.5 mm ² , 2 x 1.5 mm ²
Nominal screw torque	0.4 Nm
Dimensions	fig. 2
Weight	98 g
Protection degree	IP 20
Housing material	PC

Product reference

Description	Type	24	220-240
UC supply	AL3/UC...V	✓	
AC supply	AL3/AC...V		✓

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

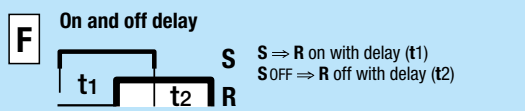
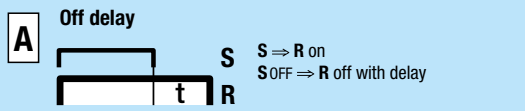
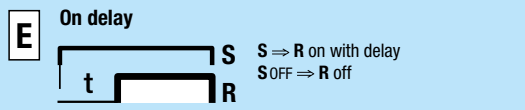
«...» list control circuit voltage to complete product references.


fig. 1. Wiring diagram

fig. 2. Dimensions (mm)
**Standards and approvals**

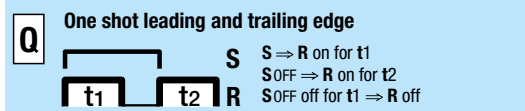
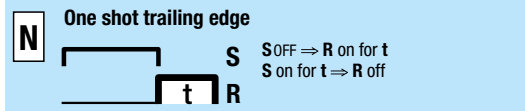
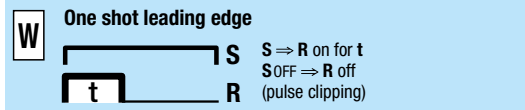
Standards IEC/EN 60947

Approvals

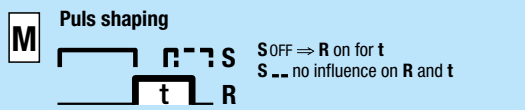
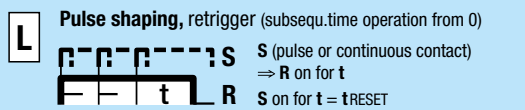
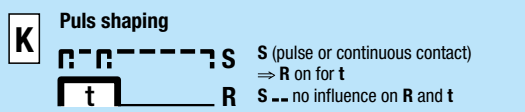
Delay functions



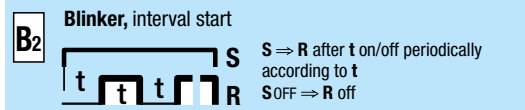
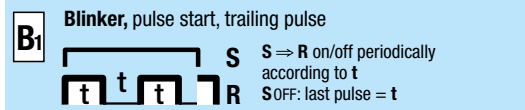
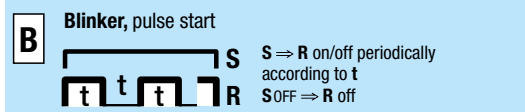
Shot timing modes



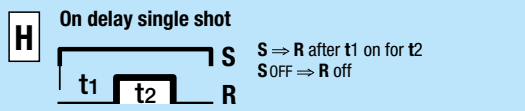
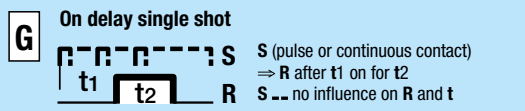
Puls shaping



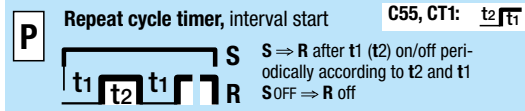
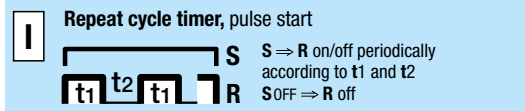
Blinker functions



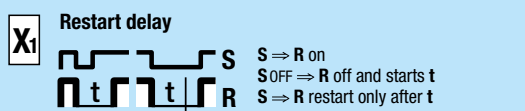
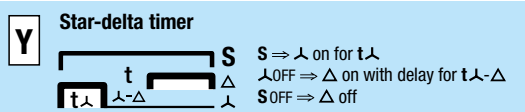
Delayed pulse



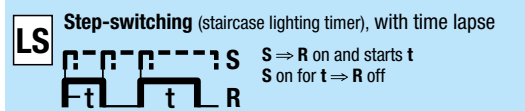
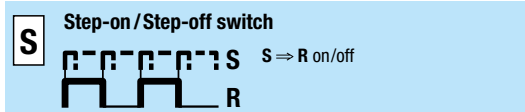
Repeat cycle timer



Special functions



Special functions



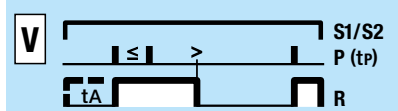
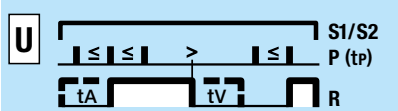
Stop / Reset



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)

