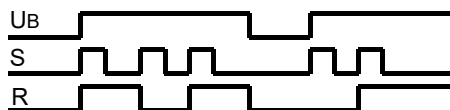


2. ORDER DESIGNATION

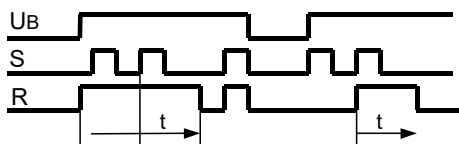
Time relay AL3/UC24V
AL3/AC48-60
AL3/AC110-127V
AL3/AC220-240V

3. FUNCTION

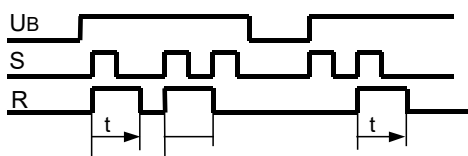
[S] Step on-step off



[L] Pulse shaping



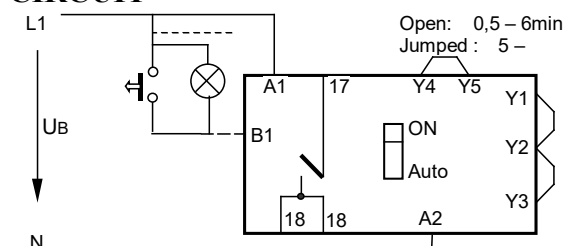
[LS] Pulse shaping retrigger.



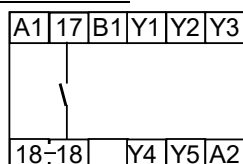
3.1. Further function characteristics

The triggering input (B1) is edge triggered.

4. CIRCUIT



Connection



5. TECHNICAL DATA

5.1. Time range

Time range 30s – 60min
range 1 0,5min – 6min
range 2 5min – 60min
Time range tolerance $t_{\min}$ 0 ÷ -30%
Time range tolerance $t_{\max}$ 0 ÷ + 30%

Fo-61.01-D-401

Datei: AL3 DB E.DOC

Gez.	Entw.	Gepr.	Reg.	Datum	Ae M	Ausg.	Blatt: 2
				11.5.87		1	von: 5
wie				16.9.98		7	M:
An				15.2.06	2763	9	

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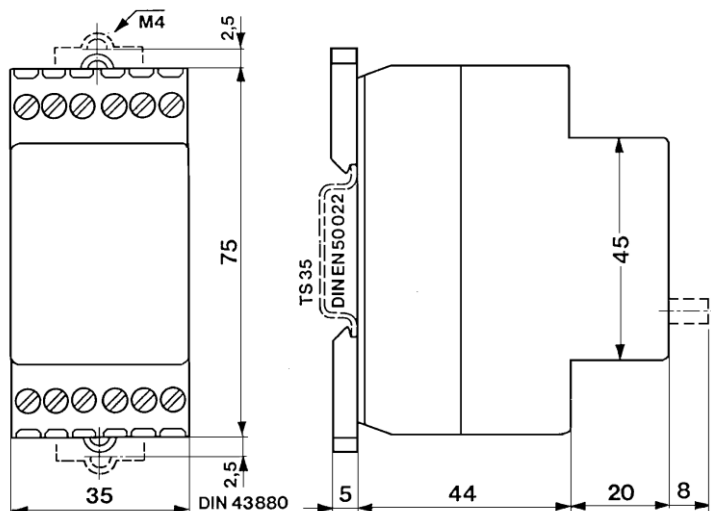
Data sheet

AL3

Stair case lighting relay

26002 - 02 - 57 - 409

	Control display	LED
6.1.	Bridge setting	
	Basically the input Y1-Y5 are not for the connection of load, if needed it is acknowledgment through the adjacent relay, load distance $\leq 20\text{cm}$, permissible by when the lines do not run together in a duct with the network conductors.	
	Time Y4 – Y5	Bridge not close : 30s – 6min
		Closed bridge : 5min – 60min
	Function Y1 – Y2 – Y3	Any bridge : Function S
		Bridge Y1 – Y2 : Function L
		Bridge Y3 – Y2 : Function LS
7.	STANDARDS, APPROVALS	
7.1	Vibration protection	IEC 571 Pkt. 6.3 Directive C2292. Test version „Shake protected“ see TM 1343
7.2	Immunity to distortions	IEC 255-4 Annex E, Class III EN 50082-2 EN 61000-4-2 Air: 8kV; Contact: 4kV EN 61000-4-4 $\geq$ Level 3 ENV 50140 $\geq 10\text{V/m}$ ENV 50204 $\geq 10\text{V/m}$ ENV 50141 $\geq 10\text{V}$
7.3	Emmissions	EN 50081-1 EN 55022 Classe B
7.4	Low voltage	EN 60065; EN 60947-4-1
7.5	Conformity, Labelling	CE, IEE 323, IEE 344 (TM1243) cUR ab98
8.	CASE, DIMENSIONS	



9. **SHORT DESCRIPTION**
The circuit of the AL3 is essentially identical to the AL2, however with more functions.
- 9.1. **Power supply**
The supply is basically obtained from a AC/DC net. The PTC1 protects the device against overload and in the case of fire.
- 9.2. **Control**
The control is designed so the residual current (40 mA at 230V, 50Hz) be safely absorbed. The device has also an extra advantage by being designed for AC. (The long life and brightness of neon lamps

Fo-61.01-D-401		Datei: AL3 DB E.DOC						Data sheet AL3 Stair case lighting relay 26002 - 02 - 57 - 409	
Gez.	Entw.	Gepr.	Reg.	Datum	Ae M	Ausg.	Blatt: 4		
				11.5.87		1	von: 5		
wie				16.9.98		7	M:		
An				15.2.06	2763	9			
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connected in parallel). Control with DC is indeed possible due the low residual current. The “Activ” mode condition is displayed by a LED.

9.3. Time / Logic

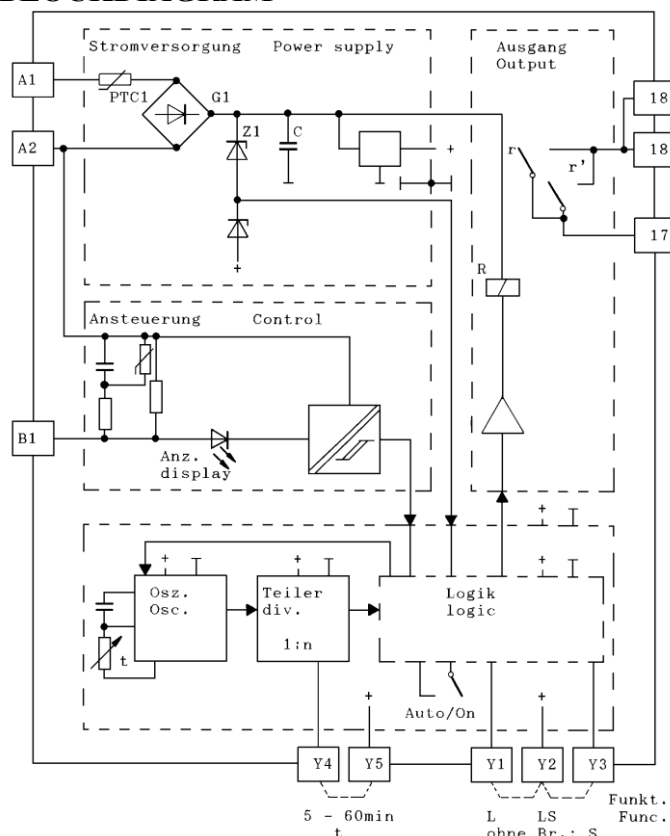
The time data is generated by a variable RC oscillator in series with a programmable divider. This circuit has the advantage of being resistance to interferences. Through the terminals Y4-Y5 is possible to set in the divider a 10 factor ratio. The period of the output being activ is programmable through the switch and the connections Y1, Y2; Y3 is for the functions: step on-step off (without connection), pulse shapping retrigger (LS) connection Y2-Y3 and the pulse shapping through (L) the connections Y1-Y2.

It is important to notice the especial behaviour when the net is “ON”. In contrast to AL1 and AL2, the device does not switch on automatically.

9.4. Output circuit

The output counts with a Tungsten contact which allows to connect lamp load or inductive loads. They are also protected against short circuit.

10. BLOCKDIAGRAM



11. APPLIKATION

Gilt für Spannungsversion AL3/AC 48-60V

Die Verwendung der Spannungsversion AL3/AC 48-60V ist auch für den Betrieb mit DC Spannung erlaubt, mit folgenden ergänzenden Technischen Daten:

Betriebsspannungsbereich	43 – 72 V DC
Ansteuerspannungsbereich an B1	43 – 72V DC
Maximaler Reststrom an B1	< 2,0 mA DC

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Datei: AL3 DB E.DOC

Gez.	Entw.	Gepr.	Reg.	Datum	Ae M	Ausg.	Blatt: 5
				11.5.87		1	von: 5
wie				16.9.98		7	M:
An				15.2.06	2763	9	

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Data sheet

AL3

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