- 17.5 mm wide
- Six time scales from 0.1 s to 24 h
- High input/output isolation
- 35 mm rail (EN 60715) mount
- "Blade + cross" both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- New multi-voltage versions with "PWM clever" technology

80.51 Screw terminal



FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 2

80.51.0.240.0000



- Multi-voltage (24...240) V AC/DC
- Multi-function

AI: On-delay

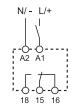
DI: Interval

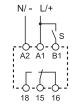
SW: Symmetrical flasher (starting pulse on)

BE: Off-delay with control signal

CE: On- and off-delay with control signal

DE: Interval with control signal on





Wiring diagram (without control signal)

Wiring diagram (with control signal)

Contact specification				
Contact configuration		1 CO (SPDT)		
Rated current/Maximum peak current A		8/16		
Rated voltage/ Maximum switching voltage V AC		250/400		
Rated load AC1	VAC	2000		
Rated load AC15 (230 V AC)	VA	400		
Single phase motor rating (230 \		0.3		
Breaking capacity DC1: 30/110/220 V A		8/0.3/0.12		
Minimum switching load	mW (V/mA)	500 (10/5)		
Standard contact material	11100 (0711171)	AgNi		
Supply specification		/ igiti		
Nominal voltage (U _N)	V AC (50/60 Hz)	24240		
rtommar vortage (ON)	V DC	24240		
Rated power AC/DC	VA (50 Hz)/W	< 1.8/< 1		
Operating range	V AC	17265		
- pgg-	V DC	17265		
Technical data				
		(0.12)s, (120)s, (0.12)min, (120)min,		
Specified time range		(0.12)h, (124)h		
Repeatability	%	±1		
Recovery time	ms	≤ 50		
Minimum control impulse	ms	50		
Setting accuracy-full range	%	±5		
Electrical life at rated load in AC	1 cycles	100 · 10³		
Ambient temperature range	°C	-10+50		
Protection category		IP 20		
Approvals (according to type)		C€ [A[∘@us		

VI-2017, www.findernet.com

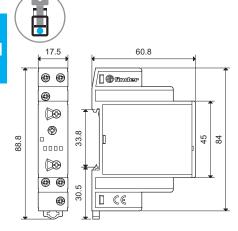


Technical data

Insulation				
Dielectric strength		80.51		
be	tween input and output circuit	V AC	4000	
be	tween open contacts	V AC	1000	
Insulation (1.2/50 μ s) between input and output kV		6		
EMC specifications				
Type of test		Reference standard		
Electrostatic discharge	contact discharge		EN 61000-4-2	4 kV
	air discharge		EN 61000-4-2	8 kV
Radio-frequency electromagnetic field (80 ÷ 1000 MHz)			EN 61000-4-3	10 V/m
Fast transients (burst) (5-50 ns, 5 kHz) on Supply terminals			EN 61000-4-4	4 kV
Surges (1.2/50 μs) on Supply terminals	ls common mode		EN 61000-4-5	4 kV
	differential mode		EN 61000-4-5	4 kV
on start terminal (B1)	common mode		EN 61000-4-5	4 kV
	differential mode		EN 61000-4-5	4 kV
Radio-frequency common mode (0.15 ÷ 80 MHz) on Supply terminals			EN 61000-4-6	10 V
Radiated and conducted emission			EN 55022	class A
Other data				
Current absorption on signal control (B1)		< 1 mA		
Power lost to the environment	without contact curre	ent W	1.4	
	with rated current	W	3.2	
Screw torque		Nm	0.8	
Max. wire size			solid cable	stranded cable
		mm^2	1 x 6 / 2 x 4	1 x 4 / 2 x 2.5
		AWG	1 x 10 / 2 x 12	1 x 12 / 2 x 14

Outline drawings

80.51 Screw terminal



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Functions

U = Supply voltage

S = Signal switch

= Output contact

LED	Supply voltage	NO output	Contacts	
		contact	Open	Closed
	OFF	Open	15 - 18	15 - 16
	ON	Open	15 - 18	15 - 16
шшшш	ON	Open (Timing in Progress)	15 - 18	15 - 16
	ON	Closed	15 - 16	15 - 18

Without control signal = Start via contact in supply line (A1).

Wiring diagram

Without control signal

With control signal = Start via contact into control terminal (B1).

(AI) On-delay.

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed.

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Apply power to timer. Output contacts transfer immediately. After the preset time has elapsed, contacts reset.

(SW) Symmetrical flasher (starting pulse on).

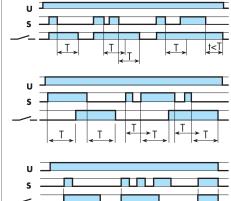
Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ratio is 1:1 (time on = time off).

With control signal N/ - I/+

80.51

Type

80.51



(BE) Off-delay with control signal.

Power is permenently applied to the timer. The output contacts transfer immediately on closure of the Signal Switch (S). Opening the Signal Switch initiates the preset delay, after which time the output contacts reset.

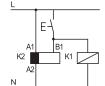
(CE) On- and off-delay with control signal.

Power is permenently applied to the timer. Closing the Signal Switch (S) initiates the preset delay, after which time the output contacts transfer. Opening the Signal switch initiates the same preset delay, after which time the output contacts reset.

(DE) Interval with control signal on.

Power is permenently applied to the timer.

On momentary or maintained closure of Signal Switch (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.



NOTE: The function must be set before energising the timer.

- N/- L/+

- * With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1).

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· Possible to control an external load, such as another relay coil or timer, connected to the control signal terminal B1.

- ** A voltage other than the supply voltage can be applied to the command Start (B1), example: A1 - A2 = 230 V AC
 - B1 A2 = 24 V DC

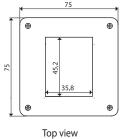


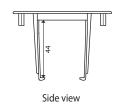
Accessories



080.01

Universal holder		080.01	
One adapter, 17.5 mm wide, is enclosed in each package		Light gray (~ RAL 7045)	
For installation of the Finder series		11, 12, 14, 19, 20, 22, 71, 72, 80, 81, 82	
Technical data			
For wall thicknesses	mm	05	
Required installation depth min.	mm	55	
For all modular devices with 44 mm dimensions		2 pitch units	
Type of Material		Polyamide PA6 25% glass fiber	
		reinforced, halogen-free	
Temperature resistance	°C	-30+100	
Suitable for products with a width	mm	17.5 or 35	





060.48

Sheet of marker tags (CEMBRE Thermal transfer printers), 48 tags, 6 x 12 mm 060.48