

Type: LESW

Switch Initiated Delay Off (Delay On Release), Multi-voltage Timer

Terminal Protection to IP20

43880 W. 17.5mn



NEW 17.5mm DIN rail housing

Videos can also be found on our YouTube channel Switch Initiated Delay Off (Delay On Release) re-triggerable timing function https://www.youtube.com/user/BroyceControlLtd

7 Selectable time ranges (0.1 seconds - 100 hours)

- Fine adjustment of selected time range
- Multi-voltage input (12 - 230V AC/DC)
- External trigger input can be from Voltage Free Contact or Solid State
- Timer will still function with load connected to trigger (B1) input
- 1 x SPDT relay output 8A
- Green LED indication for supply / timing status
 - **Red LED indication for relay status**
- Conforms to IEC 61812



Wiring Information and Product Demonstration



FUNCTION DIAGRAM Supply V.F.C A1, B1 0 0 Output LED operation LED Off LED On LED Flashing

INSTALLATION AND SETTING



Installation work must be carried out by qualified personnel.

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as required

Setting the unit.

- Set the "Range" 4 to the required position (depending on whether seconds, minutes or hours are required).
- Set the "Set %" adjustment 3 as required. The "Set %" is a % of the selected range; so for example, a 30% setting on the 1 – 10 hour range will give 3 hours.

Applying power.

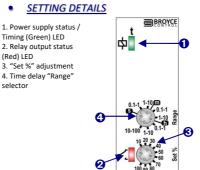
- Apply power across terminals A1 and A2 and the green LED 1 will illuminate.
- The relay will remain de-energised (contacts 15 / 16 closed and 15 / 18 open) and red LED 2 extinguished.
- Close the contact across A1 and B1 and the relay will energise (contacts 15 / 16 open and 15 / 18 closed) and red LED illuminate.
- When the contact across A1 and B1 opens, the delay period "t" will begin and the green LED will flash to indicate timing is now in progress.
- After the delay period "t" has elapsed, the relay will de-energise (contacts 15 / 16 closed and 15 / 18 open) and the red LED will extinguish.
- The green LED will now remain permanently lit.
- The whole timing process is repeated by removing and re-applying power.
- If during the time period "t", the contact across A1 and B1 closes, timing will stop and restart over again the next time the contact opens.

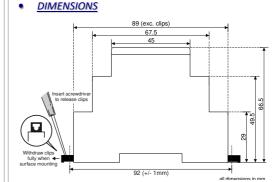
Note:

¹ In accordance with IEC 61812, the green LED is permitted to extinguish during a voltage dip or momentary interruption of the power supply providing the state of the output relay does not change. The dip / interruption duration and levels are defined in the product standard.

Supply voltage U (A1, A2):		12 – 230V AC/DC				
Frequency range:		48 - 63Hz (AC supplies)				
Supply variation:		+/ - 15%				
Overvoltage category:		III (IEC 60664)				
Rated impulse withstand voltage:		4kV (1.2/50μS) IEC 60664				
Power consumption (max.):		12V	24V	110V	230V	
	AC:	0.3VA	0.4VA	1.3VA	3.4VA	
	DC:	0.26W	0.24W	0.47W	0.95W	
Timing function:		Switch Initiated Delay Off				
Timing ranges (7):		Seconds:		inutes:	Hours:	
		0.1 – 1		1-1	0.1 – 1	
		1-10	1-	- 10	1-10	
		100 6			10 - 100	
Reset time:		100mS ± 1% of maximum full scale				
Accuracy:						
Adjustment accuracy:		< 5% of ma			212)	
Repeat accuracy: Drift with temperature:		± 0.5% at constant conditions (IEC 61812) ± 0.05% / °C				
Drift with voltage:		± 0.2% / V				
-		•				
External trigger input (A1 > B1):		Volt Free Contact, Open Collector Yes, between B1 and A2 (i.e. LED, Relay, Lamp)				
External loading: Trigger threshold:						
Minimum trigger time:					and A2 (auto-set	
Maximum input frequency:		AC: 60mS DC: 40mS (B1 terminal unloaded) 10 Hz (with 50:50 duty cycle)				
Maximum cable length:		10 m (With	30.30 duty	cyclej		
		(between Timer and external switching device)				
Power on indication / Timing ¹	١.	Green LED			0 ,	
Relay status		Red LED				
·						
Ambient temp:		-20 to +60°C +95%				
Relative humidity:						
Output (15, 16, 18): Output rating: Electrical life:		SPDT relay				
		AC1	250V 8A (2000VA)			
		AC15			250V 5A (no), 3A (nc) 25V 8A (200W)	
		DC1	ne at ratad		A (200W)	
Dielectric voltage:		≥ 150,000 ops at rated load 2kV AC (rms) IEC 60947-1				
Rated impulse withstand voltage:		4kV (1.2/50µS) IEC 60664				
•	uge.		•			
Housing:		Grey flame retardant UL94 ≈ 60g				
Weight: Mounting option:		On to 35mm symmetric DIN rail to BS EN 60715				
		or direct surface mounting via 2 x M3.5 or 4BA screws				
					ear of the unit.	
Terminal conductor size		≤ 2 x 2.5mm ² solid or stranded				
Approvals:			o IFC 61812			
Approvais:		Comornis t	0 IEC 01812	•		
		ւ(ՈՐ)ու	LISTED IN	D. CONT. EQ. E111187		
		CE, UKCA, C-tick Cand RoHS Compliant.				
		EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m				
		80MHz - 2.7GHz)				

CONNECTION DIAGRAM N/-ve Supply A1 B1 15 R (X) (X)





HS Code: 85364900

Country of Origin: UK