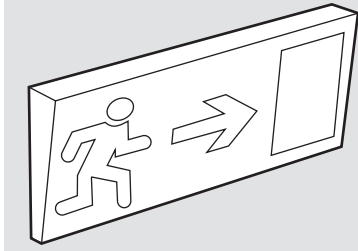


EMERG1WA  
EMERG2WA  
EMERG3WA  
EMERG4WA

User Instructions

Emergency Lighting Discharge Test solutions have been developed to meet the needs of the electrical industry. In accordance to AS2293.1 and AS/NZS2293.2 'Emergency Evacuation Lighting for Buildings', a discharge test circuit MUST be installed in both existing and new installations.



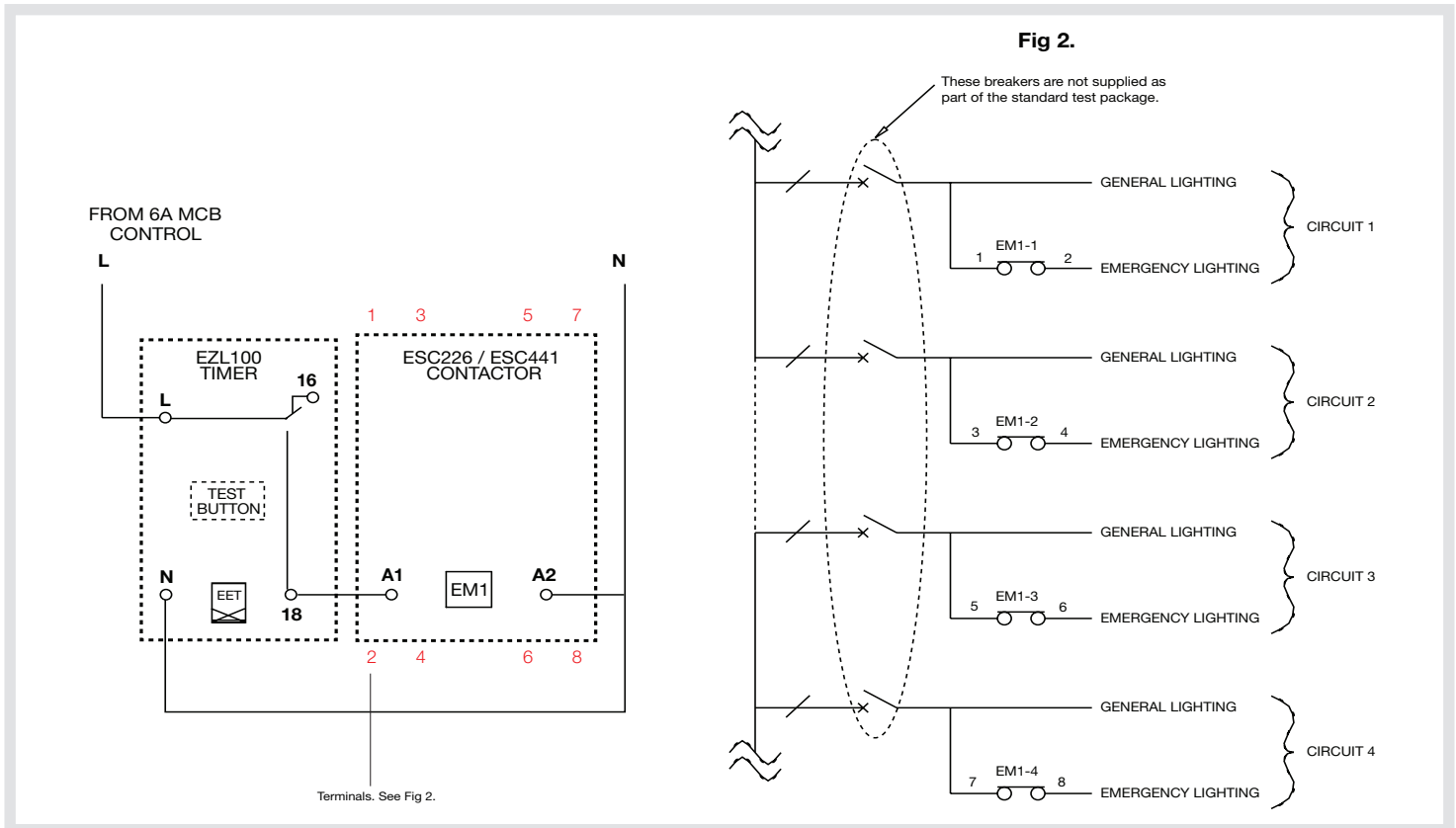
Emergency lighting discharge test kits

Operation

Upon engaging the test push button, the timer starts its operation and energizes the contactor coil. The normally closed contacts open, initiating operation of the emergency lights.

The timer, to be set at 2 hours (2hrs for initial commissioning, 90mins thereafter, completes its operation, de-energising the contactor coil returning the contacts to the normally closed position.

In accordance with AS2293, the test facility is capable of being manually reset. If the test push button is pressed, the timer resets. Push and hold the test button to reset to Off.



Kit contents in relation to product purchased

1 - Standalone solutions prewired in plastic enclosures **EMERG1WA**  
- Suitable for up to 4 separate test circuits (4 Mod. Width Total)

QTY	Cat.Ref	Description	Mod. width
1	ESC441	Contactor - 4NC contacts, 40A	3
1	EZL100	Delay timer - 10min - 180mins	1
1	GD104T	Enclosure - Plastic, 4 module	4
1	GP104T	Door - suits GD104T, transparent	-
1	VZ313	Lock - suits GD104T	-
1	1AEMERGLROOM	Wiring loom for EMERG Kits	-

2 - Wired kit without enclosure for PERFORMA panelboards (Apex, Apex PLUS, Elite)

**EMERG3WA** - Suitable for up to 4 separate test circuits (4 Mod. Width Total)

QTY	Cat.Ref	Description	Mod. width
1	ESC441	Contactor - 4NC contacts, 40A	3
1	EZL100	Delay timer - 10min - 180mins	1
1	1AEMERGLROOM	Wiring loom for EMERG Kits	-

**EMERG2WA** - Suitable for up to 2 separate test circuits (2 Mod. Width Total)

QTY	Cat.Ref	Description	Mod. width
1	ESC226	Contactor - 2NC contacts, 25A	1
1	EZL100	Delay timer - 10min - 180mins	1
1	GD102T	Enclosure - Plastic, 2 module	2
1	GP102T	Door - suits GD102T, transparent	-
1	VZ313	Lock - suits GD102T	-
1	1AEMERGLROOM	Wiring loom for EMERG Kits	-




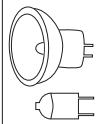
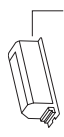

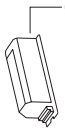
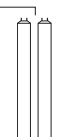

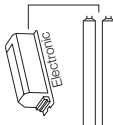
**EMERG4WA** - Suitable for up to 2 separate test circuits (2 Mod. Width Total)

QTY	Cat.Ref	Description	Mod. width
1	ESC226	Contactor - 2NC contacts, 25A	1
1	EZL100	Delay timer - 10min - 180mins	1
1	1AEMERGLROOM	Wiring loom for EMERG Kits	-

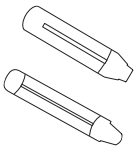

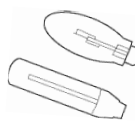
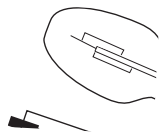



## Lighting applications

Modern lighting systems generate high inrush currents. Therefore we recommend to use the table below to calculate the maximum number of lamps (or dual fittings) which can be connected to each pole of a Hager contactor on 230V 50Hz circuits.

- From June 2014, Hager has improved the performance of 1 and 2 module contactors. The products identified on the front face with the pictogram  can accept a higher number of lamps.
- For the 1 and 2 module contactors without the pictogram , divide the results given by 2.

Type	Lamp wattage (W)	25A '+'	Rated output (per pole)	63A
<b>Compact Fluorescent Lamps (CFL's)</b>				
CFL with external electronic ballast 	5 - 7 9 - 11 15 - 26	27 26 22	49 40 36	76 63 57
CFL with integrated electronic ballast 	5 - 15 18 - 26	54 40	86 63	135 100
<b>Incandescent lamps</b>				
Tungsten Halogen Lamps 230V 	40 60 75 100 150 200 300 500 1000	57 45 38 28 18 14 10 6 2	76 67 63 41 29 22 15 9 4	120 105 100 65 45 35 23 14 7
	20 35 50 75 100 150	40 26 18 12 6 4	139 82 60 52 35 20	218 129 94 82 55 31
Halogen ELV (12 or 24V) with electronic transformer 	15 - 20 36 40 42 58-65 80 115 140 15 - 20 36 40 - 42 58 - 80 115 2 x 18 2 x 20 2 x 36 2 x 40 2 x 42 2 x 58 2 x 65 2 x 80 2 x 115 2 x 20 2 x 36 - 42 2 x 58 2 x 65 2 x 80 2 x 115	30 28 26 24 17 15 10 10 20 20 20 15 15 38 30 26 24 18 10 22 22 20 14 10 10 22 22 20 20 20 14 10 10 22 22 20 20 20 14 10 10 22 22 20 20 20 14 10 10	70 - 20 60 60 55 55 30 30 16 36 34 29 27 25 50 44 40 40 27 22 16 34 29 27 25 23 20 17 36 34 29 27 25 23 20 17 36 34 29 27 25 23 20 17	100 90 90 83 56 48 32 26 57 53 45 42 39 78 78 69 63 63 42 42 35 25 53 45 42 39 36 31 25 57 53 45 42 39 36 31 25 57 53 45 42 39 36 31 25
<b>Fluorescent tubes (T5)</b>				
Single - with starter (Low power factor <0.9) 	15 - 20 36 40 42 58-65 80 115 140 15 - 20 36 40 - 42 58 - 80 115 2 x 18 2 x 20 2 x 36 2 x 40 2 x 42 2 x 58 2 x 65 2 x 80 2 x 115	30 28 26 24 17 15 10 10 20 20 20 15 15 38 30 26 24 18 10 22 22 20 14 10 10	70 - 20 60 60 55 55 30 30 16 36 34 29 27 25 50 44 40 40 27 22 16 34 29 27 25 23 20 17 36 34 29 27 25 23 20 17	100 90 90 83 56 48 32 26 57 53 45 42 39 78 78 69 63 63 42 42 35 25 53 45 42 39 36 31 25 57 53 45 42 39 36 31 25
	Single - with starter (High power factor >0.9) 	15 - 20 36 40 42 58-65 80 115 140 15 - 20 36 40 - 42 58 - 80 115 2 x 18 2 x 20 2 x 36 2 x 40 2 x 42 2 x 58 2 x 65 2 x 80 2 x 115	30 28 26 24 17 15 10 10 20 20 20 15 15 38 30 26 24 18 10 22 22 20 14 10 10	70 - 20 60 60 55 55 30 30 16 36 34 29 27 25 50 44 40 40 27 22 16 34 29 27 25 23 20 17 36 34 29 27 25 23 20 17
Double - with starter (Low power factor <0.9) 	15 - 20 36 40 42 58-65 80 115 140 15 - 20 36 40 - 42 58 - 80 115 2 x 18 2 x 20 2 x 36 2 x 40 2 x 42 2 x 58 2 x 65 2 x 80 2 x 115	30 28 26 24 17 15 10 10 20 20 20 15 15 38 30 26 24 18 10 22 22 20 14 10 10	70 - 20 60 60 55 55 30 30 16 36 34 29 27 25 50 44 40 40 27 22 16 34 29 27 25 23 20 17 36 34 29 27 25 23 20 17	100 90 90 83 56 48 32 26 57 53 45 42 39 78 78 69 63 63 42 42 35 25 53 45 42 39 36 31 25 57 53 45 42 39 36 31 25
	Double - with starter (High power factor >0.9) 	15 - 20 36 40 42 58-65 80 115 140 15 - 20 36 40 - 42 58 - 80 115 2 x 18 2 x 20 2 x 36 2 x 40 2 x 42 2 x 58 2 x 65 2 x 80 2 x 115	30 28 26 24 17 15 10 10 20 20 20 15 15 38 30 26 24 18 10 22 22 20 14 10 10	70 - 20 60 60 55 55 30 30 16 36 34 29 27 25 50 44 40 40 27 22 16 34 29 27 25 23 20 17 36 34 29 27 25 23 20 17
Single with electronic ballast 	15 - 20 36 40 42 58-65 80 115 140 15 - 20 36 40 - 42 58 - 80 115 2 x 18 2 x 20 2 x 36 2 x 40 2 x 42 2 x 58 2 x 65 2 x 80 2 x 115	30 28 26 24 17 15 10 10 20 20 20 15 15 38 30 26 24 18 10 22 22 20 14 10 10	70 - 20 60 60 55 55 30 30 16 36 34 29 27 25 50 44 40 40 27 22 16 34 29 27 25 23 20 17 36 34 29 27 25 23 20 17	100 90 90 83 56 48 32 26 57 53 45 42 39 78 78 69 63 63 42 42 35 25 53 45 42 39 36 31 25 57 53 45 42 39 36 31 25
Double with electronic ballast 	15 - 20 36 40 42 58-65 80 115 140 15 - 20 36 40 - 42 58 - 80 115 2 x 18 2 x 20 2 x 36 2 x 40 2 x 42 2 x 58 2 x 65 2 x 80 2 x 115	30 28 26 24 17 15 10 10 20 20 20 15 15 38 30 26 24 18 10 22 22 20 14 10 10	70 - 20 60 60 55 55 30 30 16 36 34 29 27 25 50 44 40 40 27 22 16 34 29 27 25 23 20 17 36 34 29 27 25 23 20 17	100 90 90 83 56 48 32 26 57 53 45 42 39 78 78 69 63 63 42 42 35 25 53 45 42 39 36 31 25 57 53 45 42 39 36 31 25

The information given should be considered as indicative and is provided on an "as is" basis. Considerable variations may occur depending on the electrical installation and equipment used. Only experienced professionals with the expertise to determine the characteristics of the electrical installation (value and duration of inrush currents, general characteristics of the installation, types of loads, etc.) may approve and implement a configuration, in accordance with the currently applicable installation standards. Hager accepts no liability for the use made of this information.

Type	Lamp wattage (W)	25A '+'	Rated output (per pole)	63A
<b>Discharge lamps</b>				
	High pressure mercury vapour lamps (Low power factor <0.9)	50 80 125 250 400 700	28 18 10 6 2 0	32 24 18 10 6 4
	High pressure mercury vapour lamps (High power factor >0.9)	50 80 125 150 250 400 700 1000	16 16 10 10 6 2 0 0	22 22 15 15 9 5 3 2
	Low pressure sodium vapour lamps (Low power factor <0.9)	35 - 55 135 - 180	9 6 4 14	20 14 8 8
	Low pressure sodium vapour lamps (High power factor >0.9)	35 55 90 135 180 35 50 70 110 150 250 400 1000	7 5 4 2 2 24 15 12 10 8 6 2 1	23 19 16 7 5 6 30 22 18 14 10 6 4 2
	High Pressure sodium lamps (Low power factor <0.9)	50 70 110 150 250 400 1000	15 12 8 5 4 2 1	22 18 14 10 6 4 2
	High Pressure sodium lamps (High power factor >0.9)	50 70 110 150 250 400 1000	15 12 8 6 4 2 1	22 18 14 10 6 4 2
	Metal - Halide Lamp (Low power factor <0.9)	35 70 150 250 400 1000	30 17 12 8 4 2	42 26 14 9 6 3
	Metal - Halide Lamp (High power factor >0.9)	35 70 150 250 400 1000	18 12 8 7 5 2	31 22 16 11 8 5
<b>LED's</b>				
LED 230V integrated Driver, Non dimmable, E27 / GU10 	4 - 12 17 - 22 30 - 40	54 40 28	86 63 44	135 101 70
	4 - 12 17 - 22 30 - 40	22 88 62	35 118 82	55 250 185
LED 230V integrated driver Dimmable, GU 10 	100 150 200	5 3 2	6 4 4	9 6 6
	1 - 5 7 - 10	120 120	180 160	220 200
LED 12V external driver Dimmable 	15	88	160	200