

**THORN  
LIGHTING  
LTD.**

**COMPREHENSIVE  
LIGHTING  
CATALOGUE  
1971/72**



# Control gear and Accessories

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## Introduction

Thorn Lighting Control Gear and Accessories have achieved a reputation for consistently high quality at economical prices by a policy of close co-operation between our research and engineering departments, and the factory where the equipment is made.

All manufacture is carried out at Spennymoor, Co. Durham, in what is probably the largest control gear factory in Europe. A high proportion of its output is exported.

The standard of quality control and inspection at the factory is extremely high, and ensures that most Thorn Lighting control gear units comply with the requirements of B.S. specifications.

# Control gear and Accessories

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## INSTALLATION NOTES

Certain factors must be considered when installing fluorescent lighting equipment which do not apply to the installation of non-reactive loads such as tungsten filament lamps.

- 1 Cable ratings** – a factor of  $1\frac{1}{2}$  is normally applied to the rating of distribution cables, ie not more than a 4 amp load on a 5 amp circuit.
- 2 Fuse ratings** – when HRC fuses or quick reaction protective devices are used to control a circuit it may be necessary to halve the normal rating to allow for switching surges, ie a 5 amp HRC fuse may be limited to a maximum of  $2\frac{1}{2}$  amps.
- 3 Wall switches** – because of the high voltage surges that occur when switching fluorescent tubes on or off, a 'quick-make and slow-break' switch action is preferable. Certain quick break actions and switches with an earthed metal plate or mechanism may be unsuitable for fluorescent lighting.
- 4 Harmonics and neutral current** – all fluorescent tube circuits produce a certain amount of harmonic distortion which increases the neutral current in a 3-phase 4-wire system. Where the fluorescent lighting forms a large part of the electrical load, a full-size neutral must be used and the main 4-core distribution cables should have their current rating reduced by a factor of 17 per cent.
- 5 Gear noise** – all control gear having a laminated iron core will produce noise due to the magnetisation of the laminations. The noise level varies according to the type of circuit and the wattage rating. Although all Thorn control gear is suitable for use in offices and factories having a normal background noise level, this control gear could become audible when the ambient noise becomes reduced, eg in an office outside normal working hours. Advice should be sought regarding suitable gear for use in exceptionally quiet locations.  
*The method of mounting the fitting and the surface on which it is fixed plays a very important part in securing satisfactory operation in difficult conditions.*

- 6 Radio and television interference** – fluorescent tubes emit a certain amount of high frequency radiation particularly near end of life which can be picked up by radio and television sets. If the tube is more than 8 to 10 feet from a set which has a good outdoor aerial with a screened lead, interference is not normally experienced. Care should be taken, however, when using portable radios or television sets with indoor aerials close to the fluorescent tube.
- 7** When control gear is not enclosed within a lighting fitting, it is recommended that it should be mounted on a non-combustible material in accordance with the IEE 'Regulations for the Electrical Equipment of Buildings'.

For more detailed information on installation and maintenance of fluorescent lighting equipment, see the Thorn Technical Pocket-book.

# 8ft 125W fluorescent tube control gear

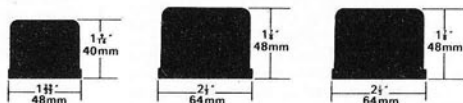
## SWITCHSTART CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube	1 × 8ft 125W	1 × 8ft 125W	1 × 8ft 125W
Circuit	Switchstart	Switchstart	Switchstart
Type of control gear	LPF choke	LPF choke	HPF ballast
Circuit diagram (see opp.)	2	2	13

### CHOKO OR BALLAST

Catalogue No.	CU/125	CI/125	AME 63219-4
Weight	4lb 1.8kg	4.5lb 1.9kg	5.75lb 2.6kg
Filling	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type B1	Type A3	Type M1
Can colour	White	White	White
Terminals	Screw	Screw	Screw

### CROSS SECTION



### CAPACITOR

Catalogue No.	AME C2173	AME C2173	Included in ballast
Capacitance $\mu$ F	7.2 $\pm$ 5%	7.2 $\pm$ 5%	—
Volts rating	440V	440V	—
Length (inc. terminals)	9in 229mm	9in 229mm	—
Diameter	1 1/2 in 38mm	1 1/2 in 38mm	—
Terminals*	Pin	Pin	—
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	—

### STARTER SWITCH

Catalogue No.	155/800	155/800	155/800 ‡
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### FUSE

1 tube – rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299
2 tube – rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299
3 tube – rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299
4 tube – rating	5A	5A	5A
Catalogue No.	AME T1268	AME T1268	AME T1268

### Other choke or ballast voltage ratings available

200/210V 50Hz	Not available	Not available	Not available
220V 50Hz	AME 42343 step-up transformer with CU/125	AME 42350 step-up transformer with CI/125	Not available
250V 50Hz	Not available	Not available	Not available

‡Order starter switch separately

\*See page 10.42 for other types

See page 10.42 for full capacitor details

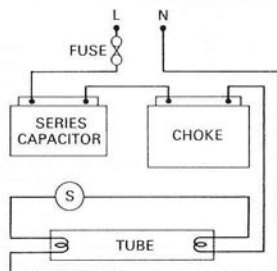
See page 10.48 for full starter switch details

See page 10.49 for full starter socket details

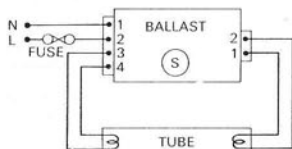
See page 10.44 for full transformer details

See page 10.45 for full extent of ballast range

### CIRCUIT DIAGRAMS

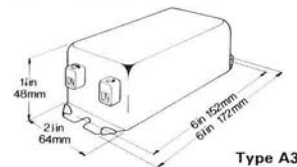


2 Leading power factor starter switch circuit with essential series capacitor

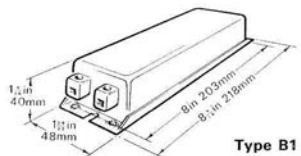


13 Starter switch circuit for HPF ballast

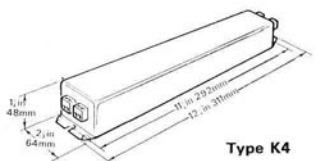
### CONTROL GEAR TYPES



Type A3



Type B1



Type K4

# 8ft 125W fluorescent tube control gear

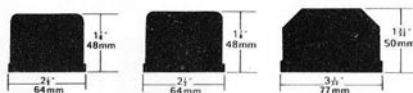
## SWITCHLESS START CONTROL GEAR FOR 240V 50Hz SUPPLY

	1 × 8ft 125W	1 × 8ft 125W	1 × 8ft 125W
Tube	Quickstart	Quickstart	Quickstart
Type of control gear	LPF choke	LPF ballast	HPF ballast
Circuit diagram (see opp.)	5	174	16

### CHOKE OR BALLAST

Catalogue No.	COI/125	BOI/125	AME 69194-4
Weight	4-5lb	1-9kg	8-75lb
Filling	Polyester resin	Polyester resin	10-25lb
Illustrated type (see opp.)	Type A3	Type K4	4-5kg
Can colour	White	White	Polyester resin
Terminals	Screw	Screw	Type P
			White
			Screw

### CROSS SECTION



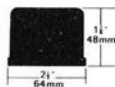
### CAPACITOR

Catalogue No.	AME C2228	AME C2228	Included in ballast
Capacitance $\mu\text{F}$	7-8 $\pm$ 5%	7-8 $\pm$ 5%	—
Volts rating	440V	440V	—
Length (inc. terminals)	9in	229mm	9in
Diameter	1 1/2in	38mm	1 1/2in
Terminals*	Pin	Pin	—
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	—

### QUICKSTART UNIT

Catalogue No.	QS/125	Included in ballast	Included in ballast
Weight	4-5lb	1-9kg	—
Filling	Polyester resin	—	—
Illustrated type (see opp.)	Type A2	—	—
Can colour	White	—	—
Terminals	Screw	—	—

### CROSS SECTION



### FUSE

1 tube - rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299
2 tube - rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299
3 tube - rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299
4 tube - rating	5A	5A	5A
Catalogue No.	AME T1268	AME T1268	AME T1268

### Other choke or ballast voltage ratings available

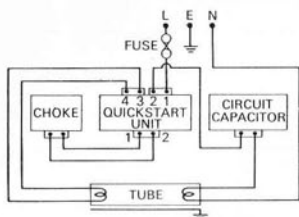
200/210V 50Hz	AME 42355 step-up transformer with COI/125	AME 42355 step-up transformer with BOI/125	Not available
220V 50Hz	AME 42350 step-up transformer with COI/125	AME 42350 step-up transformer with BOI/125	Not available
250V 50Hz	Not available	Not available	Not available

\* See page 10:42 for other types

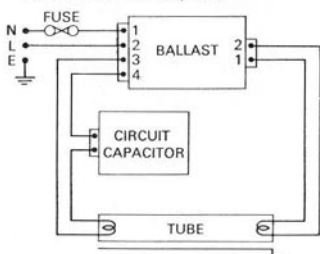
See page 10:42 for full capacitor details

See page 10:44 for full transformer details

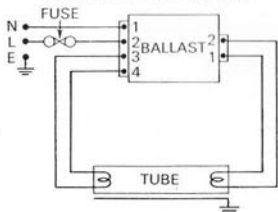
See page 10:45 for full extent of ballast range



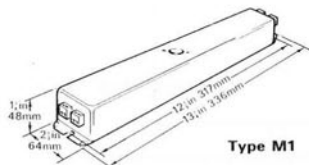
5 Quickstart circuit with separate choke and essential circuit capacitor



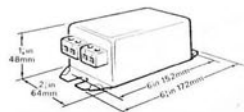
174 Quickstart circuit for LPF ballast with essential circuit capacitor



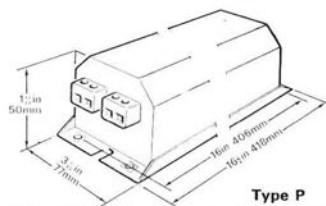
16 Quickstart Circuit for HPF ballast



Type M1



Type A2



Type P

# 8ft 85W fluorescent tube control gear

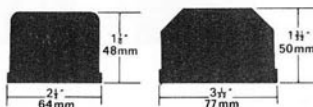
## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube(s)	1 × 8ft 85W	2 × 8ft 85W
Circuit	Quickstart	Twinstart
Type of control gear	LPF ballast	HPF ballast †
Circuit diagram (see opp.)	183	6

## CHOKE OR BALLAST

Catalogue No.	BQI/85	BV/285
Weight	6.5lb 2.2kg	11.5lb 5.2kg
Filling	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type A5	Type P
Can colour	White	White
Terminals	Screw	Screw

## CROSS SECTION



## CAPACITOR

Catalogue No.	AME C2226	included in ballast
Capacitance $\mu$ F	5 $\pm$ 5%	—
Volts rating	440V	—
Length (inc. terminals)	7 3/4 in 184mm	—
Diameter	1 1/2 in 38mm	—
Terminals*	Pin	—
Fused or unfused	Unfused	—
Fixing clips	AME Y5244 and AME Y5245	—

## FUSE

1 tube – rating	3A	—
Catalogue No.	AME T1299	—
2 tube – rating	3A	3A
Catalogue No.	AME T1299	AME T1299
3 tube – rating	3A	—
Catalogue No.	AME T1299	—
4 tube – rating	3A	3A
Catalogue No.	AME T1299	AME T1299

## Other choke or ballast voltage ratings available

200/210V 50Hz	AME 42355 step-up transformer with BQI/85	Not available
220V 50Hz	AME 42350 step-up transformer with BQI/85	AME 69222-2 †
250V 50Hz	Not available	AME 63213-H †

†No R.I.S. fitted internally – AME.C2139 to be ordered separately

\*See page 10:42 for other types

See page 10:42 for full capacitor details

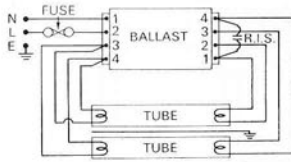
See page 10:44 for full transformer details

See page 10:45 for full extent of ballast range

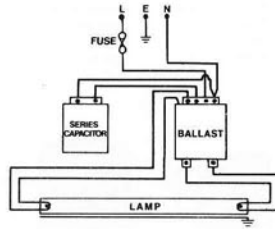
# 8ft 85W fluorescent tube control gear

## CIRCUIT DIAGRAMS

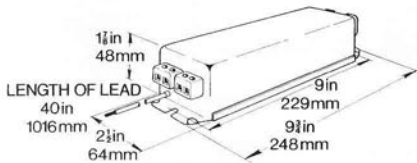
6 8ft 85W Twinstart circuit



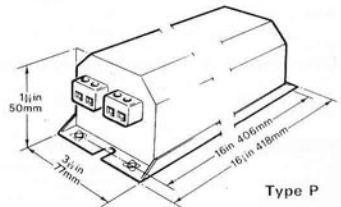
183 Quickstart circuit for Combined choke and transformer with essential series capacitor



## CONTROL GEAR TYPES



Type A5



Type P



# 6ft 85W fluorescent tube control gear

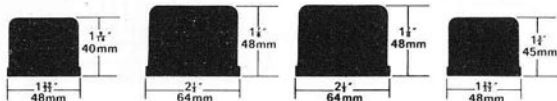
## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube	1 × 6ft 85W	1 × 6ft 85W	1 × 6ft 85W	1 × 6ft 85W
Circuit	Switchstart	Switchstart	Semi-resonant† start	Semi-resonant start
Type of control gear	LPF choke	HPF ballast	LPF ballast	LPF ballast
Circuit diagram (see opp.)	1	13	7	7

## CHOKE OR BALLAST

Catalogue No.	CU/685	AME 68028-4	SI/685	BU/685
Weight	4lb 1-8kg	5-25lb 2-4kg	4lb 1-8kg	4lb 1-8kg
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type B1	Type M2	Type A2	Type B8
Can colour	White	White	White	White
Terminals	Screw	Screw	Screw	Screw

## CROSS SECTION



## CAPACITOR

Catalogue No.	AME C2223	Included in ballast	AME C2220	AME C2220
Capacitance $\mu$ F	6 $\pm$ 10%	—	8-4 $\pm$ 5%	8-4 $\pm$ 5%
Volts rating	250V	—	250V	250V
Length (inc. terminals)	4 1/2 in 108mm	—	5 1/4 in 130mm	5 1/4 in 130mm
Diameter	1 1/2 in 38mm	—	1 1/2 in 38mm	1 1/2 in 38mm
Terminals*	Pin	—	Pin	Pin
Fused or unfused*	Fused	—	Unfused	Unfused
Fixing clips	AME Y5244 and AME Y5245	—	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245

## STARTER SWITCH

Catalogue No.	—	155/800†	155/800	—
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## FUSE

1 tube – rating	3A	3A	1-25A	1-25A
Catalogue No.	AME T1299	AME T1299	AME T1342	AME T1342
2 tube – rating	3A	3A	1-25A	1-25A
Catalogue No.	AME T1299	AME T1299	AME T1342	AME T1342
3 tube – rating	3A	3A	2 $\times$ 1-25A	2 $\times$ 1-25A
Catalogue No.	AME T1299	AME T1299	2 $\times$ AME T1342	2 $\times$ AME T1342
4 tube – rating	5A	5A	2 $\times$ 1-25A	2 $\times$ 1-25A
Catalogue No.	AME T1268	AME T1268	2 $\times$ AME T1342	2 $\times$ AME T1342

## Other choke or ballast voltage ratings available

200/210V 50Hz	Not available	Not available	Not available	Not available
220V 50Hz	AME 42350	Not available	AME 69271-2	AME 69294-†
	step-up transformer with CU/685			
250V 50Hz	AME 69229-5 §	Not available	Not available	Not available

†Order starter switch separately

\*See page 10:42 for other types

†This unit has pin terminals and must be used with capacitor AME C2289 (10 $\mu$ F  $\pm$  5%)

§This unit has pin terminals

See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

See page 10:49 for full starter socket details

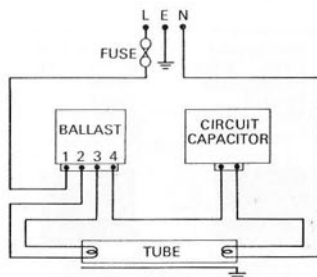
See page 10:44 for full transformer details

See page 10:45 for full extent of ballast range

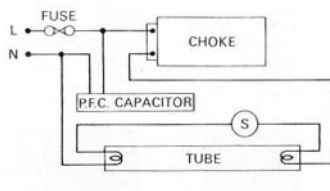
# 6ft 85W fluorescent tube control gear

## CIRCUIT DIAGRAMS

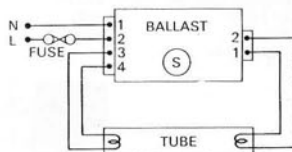
**7** Semi-resonant start circuit with essential circuit capacitor



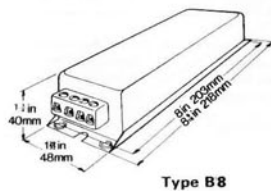
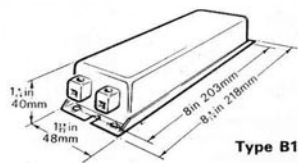
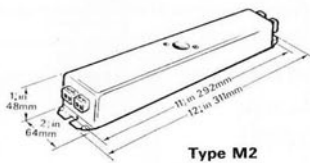
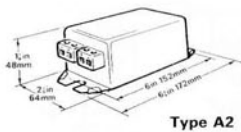
**1** Standard starter switch circuit with optional PFC capacitor



**13** Starter switch circuit for HPF ballast



## CONTROL GEAR TYPES

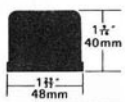
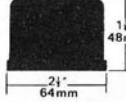
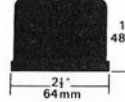
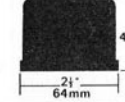
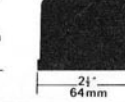


# 5ft 80W fluorescent tube control gear

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube	1 × 5ft 80W	1 × 5ft 80W	1 × 5ft 80W	1 × 5ft 80W	1 × 5ft 80W
Circuit	Switchstart	Switchstart	Quickstart	Switchstart	Semi-resonant start
Type of control gear	LPF choke	LPF choke	LPF choke	HPF ballast	HPF ballast
Circuit diagram (see opp.)	1	1	8	13	16

## CHOKES OR BALLAST

Catalogue No.	CU/685	CI/80	CI/80	AME 68028-4	AME 68041-4
Weight	4lb 1-8kg	4-25lb 1-9kg	4-25lb 1-9kg	5-25lb 2-4kg	6-75lb 3kg
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type B1	Type A2	Type A2	Type M2	Type K1
Can colour	White	White	White	White	White
Terminals	Screw	Screw	Screw	Screw	Screw
Cross Section					


## CAPACITOR

Catalogue No.	AME C2222	AME C2222	AME C2222	included in ballast	Included in ballast
Capacitance $\mu$ F	8 $\pm$ 10%	8 $\pm$ 10%	8 $\pm$ 10%	—	—
Volts rating	250V	250V	250V	—	—
Length (inc. terminals)	5in 127mm	5in 127mm	5in 127mm	—	—
Diameter	1 1/2in 38mm	1 1/2in 38mm	1 1/2in 38mm	—	—
Terminals*	Pin	Pin	Pin	—	—
Fused or unfused*	Unfused	Unfused	Unfused	—	—
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	—	—

## STARTER SWITCH

Catalogue No.	155/500	155/500	—	155/500 ‡	—
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## QUICKSTART UNIT

Catalogue No.	—	—	QS/80	—	—
Weight	—	—	2-25lb 1kg	—	—
Filling	—	—	Polyester resin	—	—
Illustrated type (see opp.)	—	—	Type O1	—	—
Can colour	—	—	White	—	—
Terminals	—	—	Screw	—	—
Cross Section	—	—		—	—

## FUSE

1 tube – rating	3A	3A	3A	3A	1-25A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299	AME T1342
2 tube – rating	3A	3A	3A	3A	1-25A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299	AME T1342
3 tube – rating	3A	3A	3A	3A	2 × 1-25A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299	2 × AME T1342
4 tube – rating	5A	5A	5A	5A	2 × 1-25A
Catalogue No.	AME T1268	AME T1268	AME T1268	AME T1268	2 × AME T1342

## Other choke or ballast voltage ratings available

200/210V 50Hz	AME 69249-1	CI/80	CI/80	Not available	Not available
220/230V 50Hz	AME 69249-2 (220V)	CI/80	CI/80	Not available	Not available
240/250V 50Hz	† AME 69229-5 (250V)	CI/80	CI/80	Not available	Not available

‡ Starter switch to be ordered separately † This unit has pin terminals

\* See page 10:42 for other types

See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

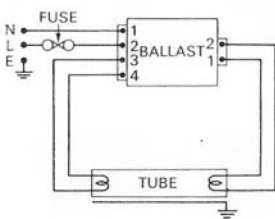
See page 10:49 for full starter socket details

See page 10:45 for full extent of ballast range

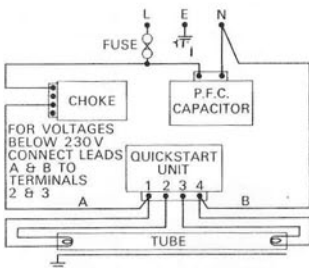
# 5ft 80W fluorescent tube control gear

## CIRCUIT DIAGRAMS

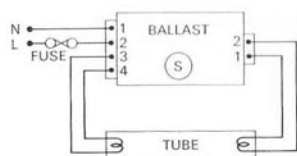
16 HPF ballast (SRS circuit)



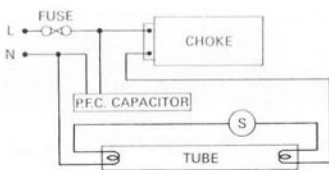
8 Tapped quickstart transformer circuit with optional PFC capacitor



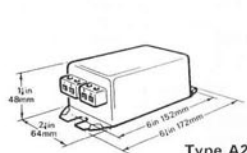
13 Starter switch circuit for HPF ballast



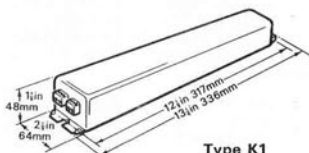
1 Standard starter switch circuit with optional PFC capacitor



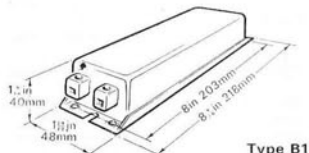
## CONTROL GEAR TYPES



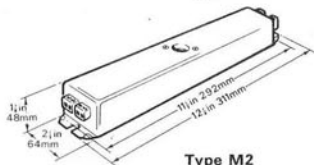
Type A2



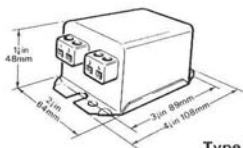
Type K1



Type B1



Type M2



Type O1

# 5ft 65W fluorescent tube control gear

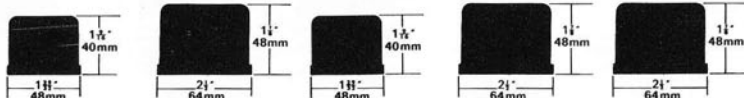
## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube	1 × 5ft 65W	1 × 5ft 65W	1 × 5ft 65W	1 × 5ft 65W	1 × 5ft 65W
Circuit	Switchstart	Semi-resonant start	Semi-resonant start	Switchstart	Semi-resonant start
Type of control gear	LPF choke	LPF ballast	LPF ballast	HPF ballast	HPF ballast
Circuit diagram (see opp.)	1	7	7	13	16

## CHOKE OR BALLAST

Catalogue No.	CU/65	BI/65	BU/65	AME 68061-4	AME 69161-4
Weight	2-75lb 1-2kg	4-25lb 1-9kg	4lb 1-8kg	4lb 1-8kg	6-5lb 2-95kg
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type B3	Type A2	Type B6	Type M3	Type K2
Can colour	White	White	White	White	White
Terminals	Screw	Screw	Screw	Screw	Screw

## CROSS SECTION



## CAPACITOR

Catalogue No.	AME C2245	AME C2220	AME C2220	Included in ballast	Included in ballast
Capacitance $\mu$ F	5 $\pm$ 10%	8-4 $\pm$ 5%	8-4 $\pm$ 5%	—	—
Volts rating	250V	250V	250V	—	—
Length (inc. terminals)	4 1/4 in 108mm	5 1/4 in 130mm	5 1/4 in 130mm	—	—
Diameter	1 1/2 in 38mm	1 1/2 in 38mm	1 1/2 in 38mm	—	—
Terminals*	Pin	Pin	Pin	—	—
Fused or unfused*	Fused	Unfused	Unfused	—	—
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	—	—

## STARTER SWITCH

Catalogue No.	155/500	—	—	155/500 ‡	—
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## FUSE

1 tube — rating	3A	1-25A	1-25A	3A	1-25A
Catalogue No.	AME T1299	AME T1342	AME T1342	AME T1299	AME T1342
2 tube — rating	3A	1-25A	1-25A	3A	1-25A
Catalogue No.	AME T1299	AME T1342	AME T1342	AME T1299	AME T1342
3 tube — rating	3A	2 × 1-25A	2 × 1-25A	3A	2 × 1-25A
Catalogue No.	AME T1299	2 × AME T1342	2 × AME T1342	AME T1299	2 × AME T1342
4 tube — rating	3A	2 × 1-25A	2 × 1-25A	3A	2 × 1-25A
Catalogue No.	AME T1299	2 × AME T1342	2 × AME T1342	AME T1299	2 × AME T1342

## Other choke or ballast voltage ratings available

200/210V 50Hz	AME 69046-1 †	AME 69163-1 †	AME 69250-1 †	Not available	Not available
220V 50Hz	AME 69046-2 †	BI/685	AME 69291-2	AME 68061-2	AME 69161-2
250V 50Hz	AME 69046-5 †	AME 69163-5 †	AME 69250-5 †	Not available	Not available

† Starter switch to be ordered separately

\* See page 10:42 for other types

‡ This unit has pin terminals

See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

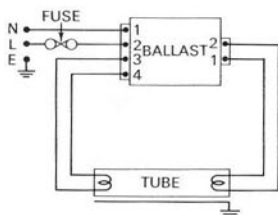
See page 10:49 for full starter socket details

See page 10:45 for full extent of ballast range

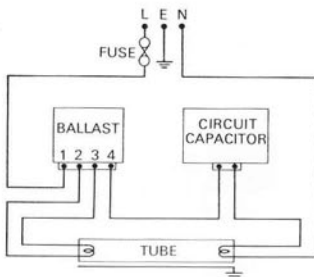
# 5ft 65W fluorescent tube control gear

## CIRCUIT DIAGRAMS

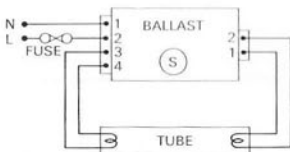
16 HPF ballast (SRS circuit)



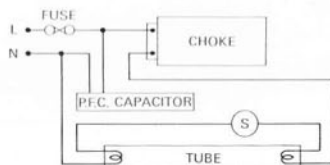
7 Semi-resonant start circuit with essential circuit capacitor



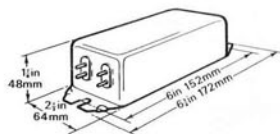
13 Starter switch circuit for HPF ballast



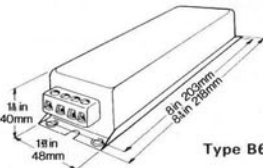
1 Standard starter switch circuit with optional PFC capacitor



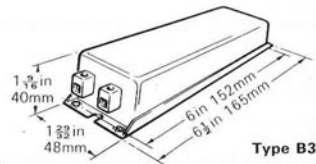
## CONTROL GEAR TYPES



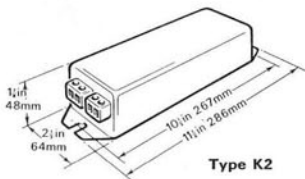
Type A2



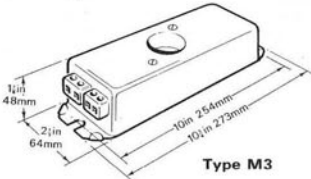
Type B6



Type B3



Type K2



Type M3

# 5ft 50W fluorescent tube control gear

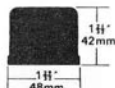
## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube	1 × 5ft 50W	1 × 5ft 50W
Circuit	Switchstart	Semi-resonant start
Type of control gear	LPF choke	HPF ballast
Circuit diagram (see opp.)	2	16

## CHOKES OR BALLAST

Catalogue No.	CJ/50	AME 69090-4
Weight	1-875lb 0-8kg	3-5lb 1-6kg
Filling	Varnish	Polyester resin
Illustrated type (see opp.)	Type E1	Type H4
Can colour	Natural varnish	White
Terminals	Screw	Screw

## CROSS SECTION



## CAPACITOR

Catalogue No.	AME C2229	Included in ballast
Capacitance $\mu$ F	2-85 $\pm$ 5%	—
Volts rating	440V	—
Length (inc. terminals)	7 1/4 in 184mm	—
Diameter	1 1/4 in 32mm	—
Terminals*	Pin	—
Fixing clip	AME Y5259§	—

## STARTER SWITCH

Catalogue No.	155/501	—
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## FUSE

1 tube - rating	3A	1-25A
Catalogue No.	AME T1299	AME T1342
2 tube - rating	3A	1-25A
Catalogue No.	AME T1299	AME T1342
3 tube - rating	3A	2 × 1-25A
Catalogue No.	AME T1299	2 × AME T1342
4 tube - rating	3A	2 × 1-25A
Catalogue No.	AME T1299	2 × AME T1342

## Other choke or ballast voltage ratings available

200/210V 50Hz	Not available	Not available
220V 50Hz	Not available	Not available
250V 50Hz	Not available	Not available

\*See page 10:42 for other types

§For use in Arrowslim fittings only

See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

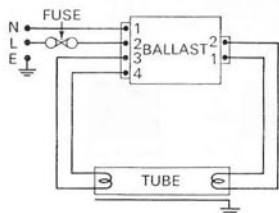
See page 10:49 for full starter socket details

See page 10:45 for full extent of ballast range

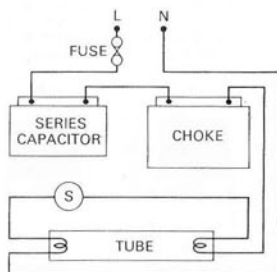
# 5ft 50W fluorescent tube control gear

## CIRCUIT DIAGRAMS

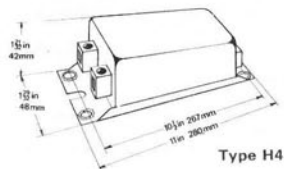
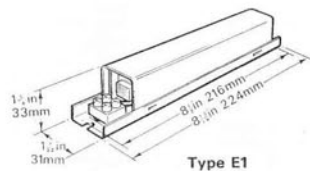
16 HPF ballast (SRS circuit)



2 Leading power factor starter switch circuit with essential series capacitor



## CONTROL GEAR TYPES





# 4ft 40W fluorescent tube control gear

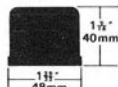
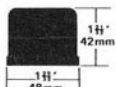
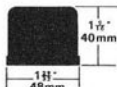
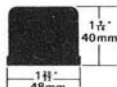
## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube	1 × 40W circular or 1 × 4ft 40W	1 × 4ft 40W	1 × 4ft 40W	1 × 4ft 40W	1 × 4ft 40W
Circuit	Switchstart	Quickstart	Switchstart	Quickstart	Semi-resonant start
Type of control gear	LPF choke	LPF choke	HPF ballast	HPF ballast	LPF ballast
Circuit diagram (see opp.)	1 (4ft) 216 (circular) 8		13	16	7

## CHOKO OR BALLAST

Catalogue No.	CU/40	CU/40	AME 69054-4	AME 69064-4	BU/40
Weight	2lb 0.9kg	2lb 0.9kg	2.5lb 1.1kg	3.5lb 1.6kg	2.85lb 1.3kg
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type B5	Type B5	Type D1	Type H1	Type B7
Can colour	White	White	White	White	White
Terminals	Screw	Screw	Screw	Screw	Screw

## CROSS SECTION



## CAPACITOR

Catalogue No.	AME C2224	AME C2224	Included in ballast	Included in ballast	AME C2273
Capacitance $\mu$ F	3.5 $\pm$ 10%	3.5 $\pm$ 10%	—	—	5.5 $\pm$ 10%
Volts rating	250V	250V	—	—	250V
Length (inc. terminals)	3 3/8 in 86mm	3 3/8 in 86mm	—	—	2 3/8 in 66mm
Diameter	1 1/2 in 38mm	1 1/2 in 38mm	—	—	1 1/2 in 38mm
Terminals*	Pin	Pin	—	—	Pin
Fused or unfused	Unfused	Unfused	—	—	Unfused
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	—	—	AME Y5244 and AME Y5245

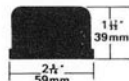
## STARTER SWITCH

Catalogue No.	155/400	—	155/400‡	—	—
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## QUICKSTART UNIT

Catalogue No.	—	QS/40	—	Included in ballast	—
Weight	—	2lb 0.9kg	—	—	—
Filling	—	Polyester resin	—	—	—
Illustrated type (see opp.)	—	Type O3	—	—	—
Can colour	—	White	—	—	—
Terminals	—	Screw	—	—	—

## CROSS SECTION



## FUSE

1 tube — rating	3A	3A	3A	3A	0.65A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299	AME T1332
2 tube — rating	3A	3A	3A	3A	0.65A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299	AME T1332
3 tube — rating	3A	3A	3A	3A	2 × 0.65A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299	2 × AME T1332
4 tube — rating	3A	3A	3A	3A	2 × 0.65A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299	2 × AME T1332

## Other choke or ballast voltage ratings available

200/210V 50Hz	AME 69057-1 †	AME 69057-1 †	Not available	Not available	Not available
220V 50Hz	AME 62999-2	AME 62999-2	AME 69054-2	Not available	AME 69004-2 §
250V 50Hz	AME 69286-5 †	AME 69286-5 †	Not available	Not available	Not available

† Starter switch to be ordered separately

\* See page 10:42 for other types

‡ This unit has pin terminals

§ This unit must be used with capacitor AME C2298 (4  $\mu$ F  $\pm$  5% 380V)

¶ For use in Arrowslim fittings only

See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

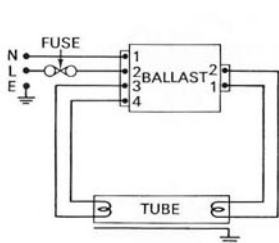
See page 10:49 for full starter socket details

See page 10:45 for full extent of ballast range

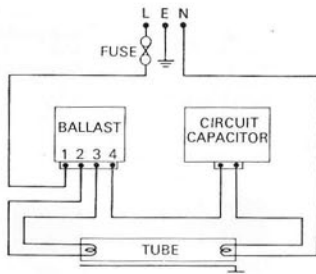
# 4ft 40W fluorescent tube control gear

## CIRCUIT DIAGRAMS

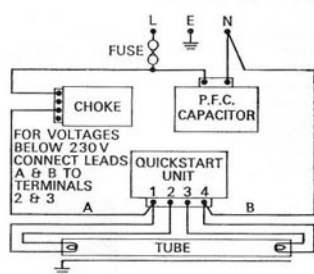
16 Quickstart circuit for HPF ballast



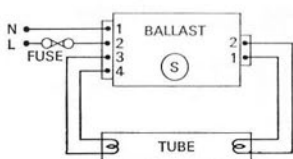
7 Semi-resonant start circuit with essential circuit capacitor



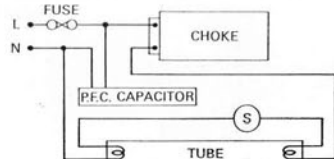
8 Tapped quickstart transformer circuit with optional PFC capacitor



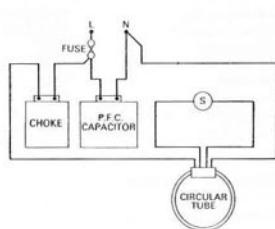
13 Starter switch circuit for HPF ballast



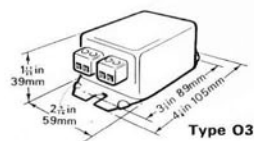
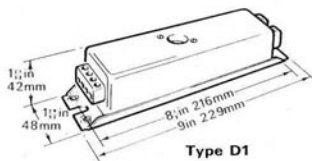
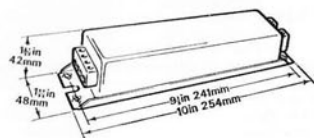
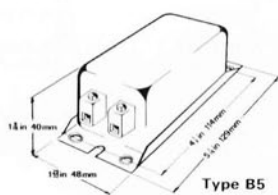
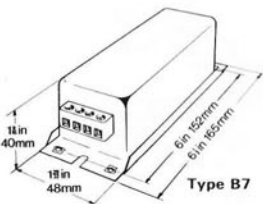
1 Standard starter switch circuit with optional PFC capacitor



216 Starter switch circuit for circular tube with optional PFC capacitor



## CONTROL GEAR TYPES



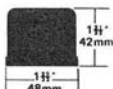
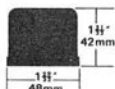
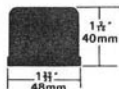
# 32W Circular and 3ft 30W fluorescent tube control gear

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube	1 × 32W circular or 1 × 3ft 30W 1in and 1½in dia. Switchstart LPF choke	1 × 3ft 30W 1in and 1½in dia. Switchstart LPF choke	1 × 3ft 30W 1in and 1½in dia. Quickstart HPF ballast	1 × 3ft 30W 1in and 1½in dia. Switchstart HPF ballast
Circuit diagram (see opp.)	1 (3ft) 216 (circular)	1	16	13

## CHOKE OR BALLAST

Catalogue No.	CU/30	CJ/30	AME 69063-4	AME 69053-4
Weight	2lb 0.9kg	1.875lb 0.8kg	3.5lb 1.6kg	2.5lb 1.1kg
Filling	Polyester resin	Varnish	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type B5	Type E2	Type H1	Type D1
Can colour	White	Natural varnish	White	White
Terminals	Screw	Screw	Screw	Screw
Cross Section				



## CAPACITOR

Catalogue No.	AME C2224	AME C2227	Included in ballast	Included in ballast
Capacitance µF	3.5 ± 10%	3 ± 10%	—	—
Volts rating	250V	250V	—	—
Length (inc. terminals)	3½in 86mm	4¼in 107mm	—	—
Diameter	1½in 38mm	1½in 32mm	—	—
Terminals*	Pin	Pin	—	—
Fused or unfused*	Unfused	Fused	—	—
Fixing clips	AME Y5244 and AME Y5254	AME Y5259§	—	—

## STARTER SWITCH

Catalogue No.	155/400	155/400	—	155/400‡
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## FUSE

1 tube – rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299
2 tube – rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299
3 tube – rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299
4 tube – rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299

## Other choke or ballast voltage ratings available

200/210V 50Hz	Not available	Not available	Not available	Not available
220V 50Hz	AME 62990-2	AME 66051-2	Not available	Not available
250V 50Hz	Not available	Not available	Not available	Not available

\*See page 10:42 for other types

‡For use in Arrowslim fitting only

See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

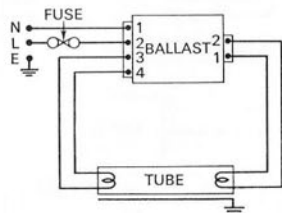
See page 10:49 for full starter socket details

See page 10:45 for full extent of ballast range

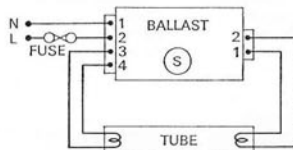
# 3ft 32W Circular and 30W fluorescent tube control gear

## CIRCUIT DIAGRAMS

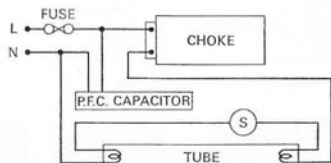
16 Quickstart circuit for HPF ballast



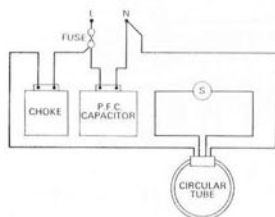
13 Starter switch circuit for HPF ballast



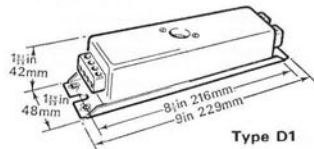
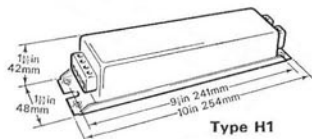
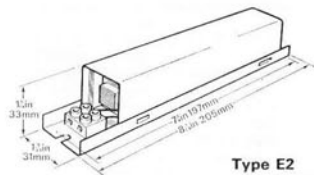
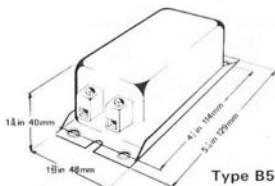
1 Standard starter switch circuit with optional PFC capacitor



216 Starter switch circuit for circular tube with optional PFC capacitor



## CONTROL GEAR TYPES



# 2ft 40W fluorescent tube control gear

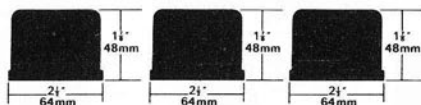
## SWITCHSTART CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube(s)	1 × 2ft 40W	2 × 2ft 40W	2 × 2ft 40W
Circuit	Switchstart	Switchstart	Switchstart
Type of control gear	LPF choke	LPF choke	HPF ballast
Circuit diagram (see opp.)	1	10	15

## CHOKES OR BALLAST

Catalogue No.	CI/240	CI/2240	AME 68028/4
Weight	4-25lb 1-9kg	4-25lb 1-9kg	4-75lb 2-1kg
Filling	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type A2	Type A2	Type M2
Can colour	White	White	White
Terminals	Screw	Screw	Screw

## CROSS SECTION



## CAPACITOR

Catalogue No.	AME C2222	AME C2222	—
Capacitance $\mu$ F	8-0 $\pm$ 10%	8-0 $\pm$ 10%	—
Working volts	250V	250V	—
Length (inc. terminals)	5in 127mm	5in 127mm	—
Diameter	1 1/2 in 38mm	1 1/2 in 38mm	—
Terminals*	Pin	Pin	—
Fused or unfused*	Unfused	Unfused	—
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	—

## STARTER SWITCH

Catalogue No.	2 × 155/200	—	2 × 155/200 ‡
---------------	-------------	---	---------------

## FUSE

1 tube – rating	3A	—	—
Catalogue No.	AME T1299	—	—
2 tube – rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299
3 tube – rating	3A	—	—
Catalogue No.	AME T1299	—	—
4 tube – rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299

## Other choke or ballast voltage ratings available

200/210V 50Hz	CI/240	CI/2240	Not available
220/230V 50Hz	CI/240	CI/2240	Not available
240/250V 50Hz	CI/240	CI/2240	Not available

‡ Starter switches to be ordered separately. One starter switch socket will also be required.

\* See page 10:42 for other types

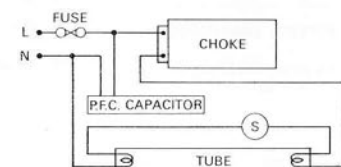
See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

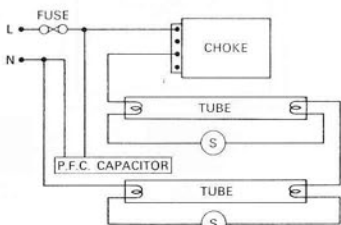
See page 10:49 for full starter socket details

See page 10:45 for full extent of ballast range

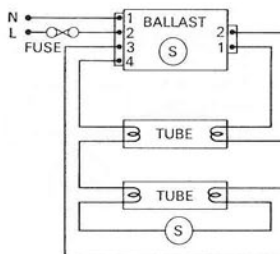
## CIRCUIT DIAGRAMS



1 Standard starter switch circuit with optional PFC capacitor

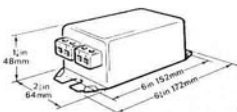


10 Starter switch circuit for series pair tube operation with optional PFC capacitor

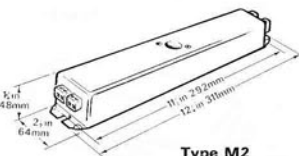


15 Twin tube starter switch circuit for HPF ballast

## CONTROL GEAR TYPES

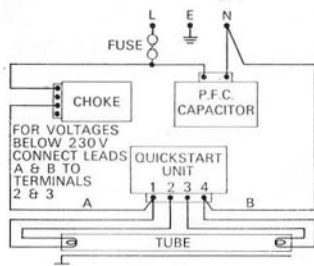


Type A2

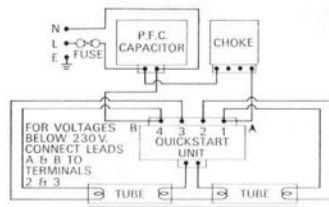


Type M2

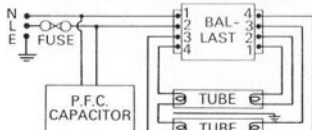
# 2ft 40W fluorescent tube control gear



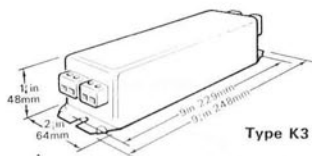
8 Tapped Quickstart transformer circuit with optional PFC capacitor



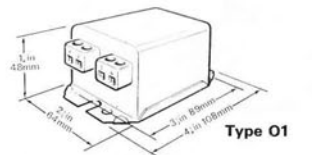
11 Twin tube Quickstart circuit with optional PFC capacitor



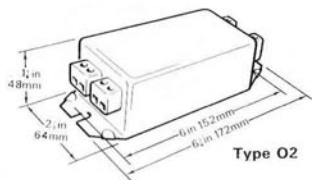
12 Twin tube Quickstart circuit for LPF ballast with optional PFC capacitor



Type K3



Type O1



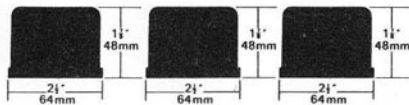
Type O2

## QUICKSTART CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube(s)	1 × 2ft 40W	2 × 2ft 40W	2 × 2ft 40W
Circuit	Quickstart	Quickstart	Quickstart
Type of control gear	LPF choke	LPF choke	LPF ballast
Circuit diagram (see opp.)	8	11	12

## CHOKES OR BALLAST

Catalogue No.	C1/240	C1/2240	AME 69082/4
Weight	4-25lb 1-9kg	4-25lb 1-9kg	6lb 2-7kg
Filling	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type A2	Type A2	Type K3
Can colour	White	White	White
Terminals	Screw	Screw	Screw
Cross Section			

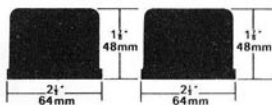


## CAPACITOR

Catalogue No.	AME C2222	AME C2222	AME C2222
Capacitance $\mu\text{F}$	8 ± 10%	8 ± 10%	8 ± 10%
Working volts	250V	250V	250V
Length (inc. terminals)	5in 127mm	5in 127mm	5in 127mm
Diameter	1 1/2 in 38mm	1 1/2 in 38mm	1 1/2 in 38mm
Terminals*	Pin	Pin	Pin
Fused or unfused*	Unfused	Unfused	Unfused
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245

## QUICKSTART UNIT

Catalogue No.	QS/80	QS 2240	Included in ballast
Weight	2-25lb 1kg	3-1lb 1-4kg	—
Filling	Polyester resin	Polyester resin	—
Illustrated type (see opp.)	Type O1	Type O2	—
Can colour	White	White	—
Terminals	Screw	Screw	—
Cross Section			—



## FUSE

1 tube - rating	3A		
Catalogue No.	AME T1299		
2 tube - rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299
3 tube - rating	3A		
Catalogue No.	AME T1299		
4 tube - rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299

## Other choke or ballast voltage ratings available

200/210V 50Hz	C1/240	C1/2240	Not available
220/230V 50Hz	C1/240	C1/2240	Not available
240/250V 50Hz	C1/240	C1/2240	Not available

\* See page 10:42 for other types

See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

See page 10:49 for full starter socket details

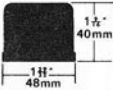
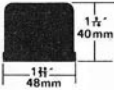
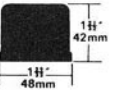
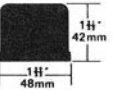
See page 10:45 for full extent of ballast range

# Twin 2ft 20W fluorescent tube control gear

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tubes	2 × 2ft 20W	2 × 2ft 20W	2 × 2ft 20W	2 × 2ft 20W
Circuit	Switchstart	Quickstart	Switchstart	Quickstart
Type of control gear	LPF choke	LPF choke	HPF ballast	LPF ballast
Circuit diagram (see opp.)	10	11	15	12

## CHOKE OR BALLAST

Catalogue No.	CU/40	CU/40	AME 69054-4	AME 69032-4
Weight	2lb 0.9kg	2lb 0.9kg	2.5lb 1.1kg	2.75lb 1.2kg
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type B5	Type B5	Type D1	Type H2
Can colour	White	White	White	White
Terminals	Screw	Screw	Screw	Screw
Cross Section				

## CAPACITOR

Catalogue No.	AME C2224	AME C2224	Included in ballast	AME C2224
Capacitance $\mu$ F	3.5 $\pm$ 10%	3.5 $\pm$ 10%	—	3.5 $\pm$ 10%
Volts rating	250V	250V	—	250V
Length (inc. terminals)	3 3/8 in 86mm	3 3/8 in 86mm	—	3 3/8 in 86mm
Diameter	1 1/2 in 38mm	1 1/2 in 38mm	—	1 1/2 in 38mm
Terminals*	Pin	Pin	—	Pin
Fused or unfused*	Unfused	Unfused	—	Unfused
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	—	AME Y5244 and AME Y5245

## STARTER SWITCH

Catalogue No.	2 × 155/200	—	2 × 155/200‡	—
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## QUICKSTART UNIT

Catalogue No.	—	OS/220	—	Included in ballast
Weight	—	2lb 0.9kg	—	—
Filling	—	Polyester resin	—	—
Illustrated type (see opp.)	—	Type O4	—	—
Can colour	—	White	—	—
Terminals	—	Screw	—	—
Cross Section	—		—	—

## FUSE

2 tube – rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299
4 tube – rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299

## Other choke or ballast voltage ratings available

200/210V 50Hz	AME 69057-1 †	AME 69057-1 †	Not available	Not available
220V 50Hz	AME 62999-2	AME 62999-2	AME 69054-2	Not available
250V 50Hz	AME 69286-5	AME 69286-5	Not available	Not available

†Order starter switches separately. One starter switch socket will also be required

\*See page 10:42 for other types

‡This unit has pin terminals

See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

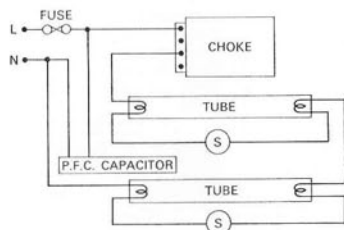
See page 10:49 for full starter socket details

See page 10:45 for full extent of ballast range

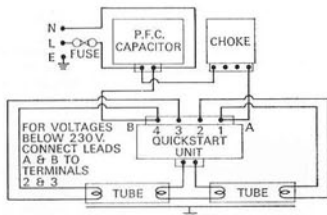
# Twin 2ft 20W fluorescent tube control gear

## CIRCUIT DIAGRAMS

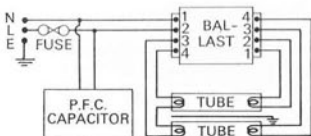
**10** Starter switch circuit for series pair tube operation with optional PFC capacitor



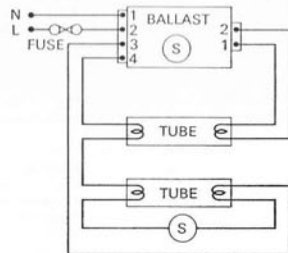
**11** Twin tube Quickstart circuit with optional PFC capacitor



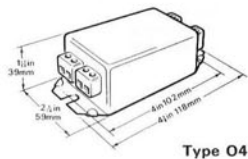
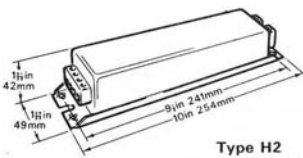
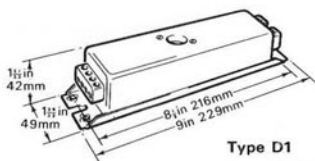
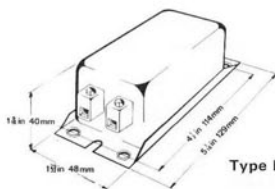
**12** Twin tube Quickstart circuit for LPF ballast with optional PFC capacitor



**15** Twin tube starter switch circuit for HPF ballast



## CONTROL GEAR TYPES





# Twin 18in 15W fluorescent tube control gear

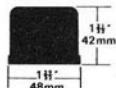
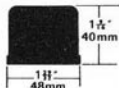
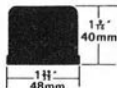
## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tubes	2 × 18in 15W 1in and 1½in dia.	2 × 18in 15W 1in and 1½in dia.	2 × 18in 15W 1in and 1½in dia.
Circuit	Switchstart LPF choke	Quickstart LPF choke	Switchstart HPF ballast
Type of control gear	10	11	15
Circuit diagram (see opp.)			

## CHOKO OR BALLAST

Catalogue No.	CU/30	CU/30	AME 69053-4
Weight	2lb 0.9kg	2lb 0.9kg	2.5lb 1.1kg
Filling	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type B5	Type B5	Type D1
Can colour	White	White	White
Terminals	Screw	Screw	Screw

Cross Section



## CAPACITOR

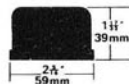
Catalogue No.	AME C2224	AME C2224	—
Capacitance $\mu$ F	3.5 $\pm$ 10%	3.5 $\pm$ 10%	—
Volts rating	250V	250V	—
Length (inc. terminals)	3 3/4in 86mm	3 3/4in 86mm	—
Diameter	1 1/2in 38mm	1 1/2in 38mm	—
Terminals*	Pin	Pin	—
Fused or unfused*	Unfused	Unfused	—
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	—

## STARTER SWITCH

Catalogue No.	2 × 155/200	—	2 × 155/200‡
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## QUICKSTART UNIT

Catalogue No.	—	OS/220	—
Weight	—	2lb 0.9kg	—
Filling	—	Polyester resin	—
Illustrated type (see opp.)	—	Type O4	—
Can colour	—	White	—
Terminals	—	Screw	—
Cross Section	—	—	—



## FUSE

2 tube – rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299
4 tube – rating	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299

## Other choke or ballast voltage ratings available

200/210V 50Hz	Not available	Not available	Not available
220V 50Hz	AME 62990-2	AME 62990-2	Not available
250V 50Hz	Not available	Not available	Not available

‡Order starter switches separately, one starter switch socket will also be required

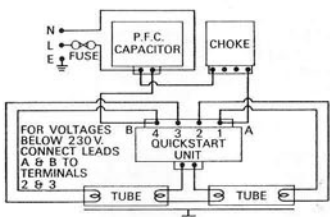
\*See page 10:42 for other types

See page 10:42 for full capacitor details  
 See page 10:48 for full starter switch details  
 See page 10:49 for full starter socket details  
 See page 10:45 for full extent of ballast range

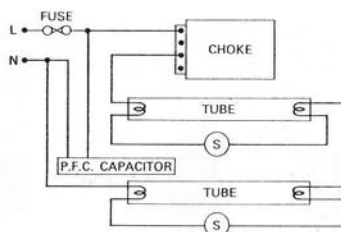
# Twin 18in 15W fluorescent tube control gear

## CIRCUIT DIAGRAMS

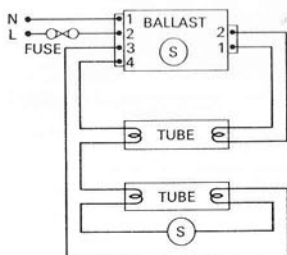
11 Twin tube Quickstart circuit with optional PFC capacitor



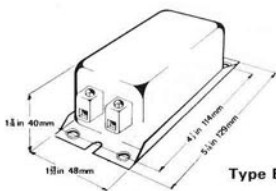
10 Starter switch circuit for series pair tube operation with optional PFC capacitor



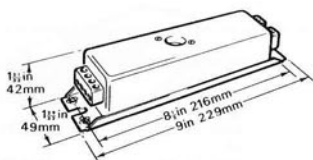
15 Twin tube starter switch circuit for HPF ballast



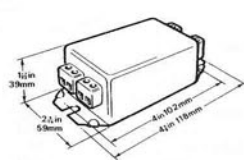
## CONTROL GEAR TYPES



Type B5



Type D1



Type O4

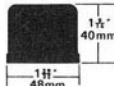
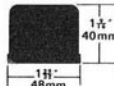
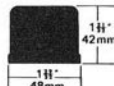

# Single 22W circular, 2ft 20W and 18in 15W fluorescent tube control gear

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Tube	1 × 2ft 20W or 1 × 18in 15W	1 × 22W Circular or 1 × 2ft 20W or 1 × 18in 15W	1 × 2ft 20W or 1 × 18in 15W	1 × 22W Circular or 1 × 2ft 20W or 1 × 18in 15W
Circuit	(1in or 1½in dia.) Quickstart	(1in or 1½in dia.) Switchstart	(1in or 1½in dia.) Quickstart	(1in or 1½in dia.) Switchstart
Type of control gear	LPF choke	LPF choke	LPF ballast	LPF ballast
Circuit diagram (see opp.)	8	1 (15/20W) 216 (22W)	219	17

## CHOKE OR BALLAST

Catalogue No.	CU/20	CU/20	AME 69072-4	AME 69195-4
Weight	2lb 0-9kg	2lb 0-9kg	2-5lb 1-13kg	2-25lb 1-02kg
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type B5	Type B5	Type H3	Type D1
Cross Section				
Can colour	White	White	White	White
Terminals	Screw	Screw	Screw	Screw

## CAPACITOR

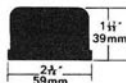
Catalogue No.	AME C2224	AME C2224	AME C2224	AME C2224
Capacitance µF	3-5 ± 10%	3-5 ± 10%	3-5 ± 10%	3-5 ± 10%
Working volts	250V	250V	250V	250V
Length (inc. terminals)	3½in 86mm	3½in 86mm	3½in 86mm	3½in 86mm
Diameter	1½in 38mm	1½in 38mm	1½in 38mm	1½in 38mm
Terminals*	Pin	Pin	Pin	Pin
Fused or unfused*	Unfused	Unfused	Unfused	Unfused
Fixing clips	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245	AME Y5244 and AME Y5245

## STARTER SWITCH

Catalogue No.	—	155/200	—	155/200‡
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## QUICKSTART UNIT

Catalogue No.	QS/40	—	Included in ballast	—
Weight	2lb 0-9kg	—	—	—
Filling	Polyester resin	—	—	—
Illustrated type (see opp.)	Type O3	—	—	—
Cross Section	—	—	—	—
Can colour	White	—	—	—
Terminals	Screw	—	—	—



## FUSE

1 tube - rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299
2 tube - rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299
3 tube - rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299
4 tube - rating	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299

## Other choke or ballast voltage ratings available

200/210V 50Hz	AME 69058-1 †	AME 69058-1 †	Not available	Not available
220V 50Hz	AME 62993-2	AME 62993-2	Not available	Not available
250V 50Hz	AME 69058-5 †	AME 69058-5 †	Not available	Not available

† This unit has pin terminals ‡ Order starter switches separately \* See page 10:42 for other types

See page 10:42 for full capacitor details

See page 10:48 for full starter switch details

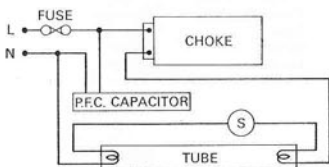
See page 10:49 for full starter socket details

See page 10:45 for full extent of ballast range

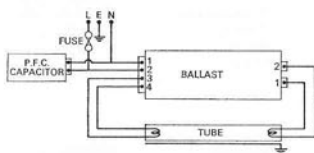
# Single 22W circular, 2ft 20W and 18in 15W fluorescent tube control gear

## CIRCUIT DIAGRAMS

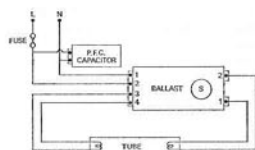
- 1** Standard starter switch circuit with optional PFC capacitor



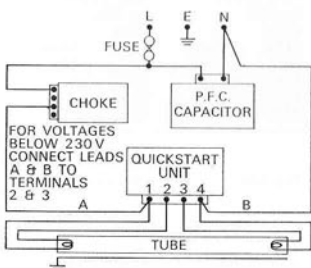
- 219** Quickstart circuit for LPF ballast with optional PFC capacitor



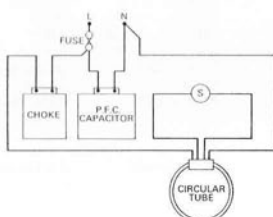
- 17** Starter switch circuit for LPF ballast with optional PFC capacitor



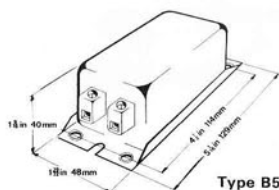
- 8** Tapped quickstart transformer circuit with optional PFC capacitor



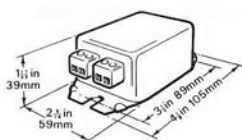
- 216** Starter switch circuit for circular tube with optional PFC capacitor



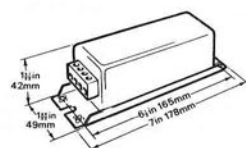
## CONTROL GEAR TYPES



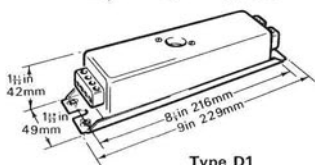
Type B5



Type O3



Type H3



Type D1

# 21in 13W, 12in 8W, 9in 6W and 6in 4W control gear

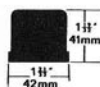
## CONTROL GEAR FOR 230/250V 50Hz SUPPLY

Tube(s)	1 × 21in 13W	2 × 12in 8W	2 × 6/4W	1 × 12in 8W	1 × 4/6/8/13W
Circuit	Switchstart	Switchstart	Switchstart	Switchstart	Switchstart
Type of control gear	LPF choke	LPF choke	LPF choke	LPF choke	LPF choke
Circuit diagram (see opp.)	1	10	10	1	1

## CHOKE OR BALLAST

Catalogue No.	CD/13	CPX/28	CPX/8	CD/8	CPX/8
Weight	1-25lb 0-6kg	1-25lb 0-6kg	1-25lb 0-6kg	1-25lb 0-6kg	1-25lb 0-6kg
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see opp.)	Type F	Type G	Type G	Type F	Type G
Can colour	White	White	White	White	White
Terminals	Leads	Leads	Leads	Leads	Leads

## CROSS SECTION



## CAPACITOR

Catalogue No.	AME C2286	AME C2286	AME C2286	AME C2286	AME C2286
Capacitance $\mu$ F	2 $\pm$ 10%	2 $\pm$ 10%	2 $\pm$ 10%	2 $\pm$ 10%	2 $\pm$ 10%
Working volts	250V	250V	250V	250V	250V
Length (inc. terminals)	3 1/2 in 97mm	3 1/2 in 97mm	3 1/2 in 97mm	3 1/2 in 97mm	3 1/2 in 97mm
Diameter	1 in 26mm	1 in 26mm	1 in 26mm	1 in 26mm	1 in 26mm
Terminals	Solder tags	Solder tags	Solder tags	Solder tags	Solder tags
Fused or unfused	Fused	Fused	Fused	Fused	Fused
Fixing clip	AME Y5200	AME Y5200	AME Y5200	AME Y5200	AME Y5200

## STARTER SWITCH

Catalogue No.	155/500	2 × 155/100 †	2 × 155/100 †	155/500	155/500
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## FUSE

1 tube – rating	3A	—	—	3A	3A
Catalogue No.	AME T1299	—	—	AME T1299	AME T1299
2 tube – rating	3A	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299	AME T1299
3 tube – rating	3A	—	—	3A	3A
Catalogue No.	AME T1299	—	—	AME T1299	AME T1299
4 tube – rating	3A	3A	3A	3A	3A
Catalogue No.	AME T1299	AME T1299	AME T1299	AME T1299	AME T1299

## Other choke or ballast voltage ratings available

200/220V 50Hz	AME 69160.L	Not available	Not available	AME 69159.L	4/6/8W CPX/28
220V 50Hz	—	—	—	—	13W Use CPX/8 above

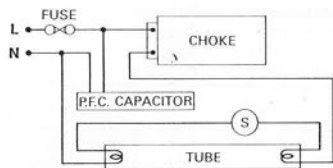
See page 10:42 for full capacitor details  
 See page 10:48 for full starter switch details  
 See page 10:49 for full starter socket details

†Due to the asymmetrical construction of these switches, they must be placed in the starter switch sockets correctly orientated (i.e. if the switches refuse to operate, one must be removed and rotated through 180°)

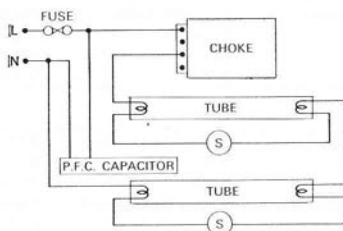
# 21in 13W, 12in 8W, 9in 6W and 6in 4W control gear

## CIRCUIT DIAGRAMS

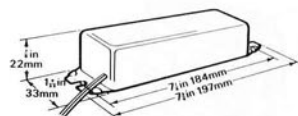
1 Standard starter switch circuit with optional PFC capacitor



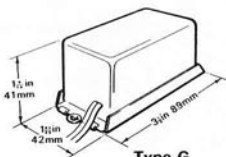
10 Starter switch circuit for series pair tube operation with optional PFC capacitor



## CONTROL GEAR TYPES



Type F



Type G

# Circuit components for 50W, 80W, 125W and 250W MBF, MBFR and MBF °Kolorlux mercury discharge lamps

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Lamp wattage	50W	80W	125W	250W
Circuit diagram (see below)	301	301	301	301

### Ballast

Catalogue No.	AME 53184.4 †	AME 53162.4	AME 53159.4	AME 53198.4 ‡
Weight	2.75lb 1.2kg	4.0lb 1.8kg	6.0lb 2.72kg	5.6lb 2.54kg
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see below)	Type K	Type DV	Type DT	Type DT
Can colour	White	White	White	White
Terminals	Screw	Screw	Screw	Screw

### Capacitor

Catalogue No.	AME C2203 †	AME C2234	AME C2234	AME C2214
Capacitance $\mu$ F	6.0 $\pm$ 10%	8.0 $\pm$ 10%	8.0 $\pm$ 10%	13.0 $\pm$ 10%
Working volts	250V	250V	250V	250V
Terminals	Solder tags	Flying leads	Flying leads	Flying leads
Fused or unfused	Fused	Unfused	Unfused	Unfused

### Other ballast voltage ratings available

220V 50Hz Cat No.	AME 53188.2 †	AME 53176.2 †	AME 53134.2 †	AME 53198.2 ‡
Illustrated type	Type K	Type R1	Type R2	Type DT
Can colour	White	White	White	Black
Weight	2.75lb 1.2kg	3.0lb 1.36kg	4.2lb 1.87kg	5.6lb 2.54kg
200/250V 50Hz Cat No.	Not available	AME 53162.T	AME 53159.T	AME 53158.T
Illustrated type	—	Type DV	Type DV	Type DS
Can colour	—	White	White	White
Weight	—	4.0lb 1.8kg	6.0lb 2.72kg	8.5lb 3.86kg
Voltage tappings	—	200/210; 220/230; 240/250V	200/210; 220/230; 240/250V	200; 210; 220; 230; 240; 250V

‡ The heat dissipation from these ballasts is extremely efficient and it is therefore necessary to ensure that cables in close proximity to the ballast surface are high temperature grade or suitably protected by high temperature sleeving.

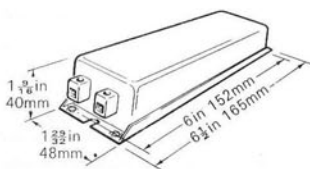
† For use in fittings only.

See page 10:43 for full capacitor details

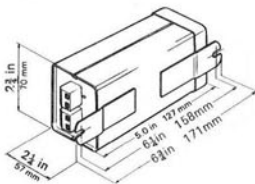
301 Circuit for MBF and MBFR mercury discharge lamps.



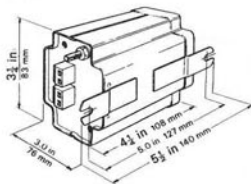
Type K



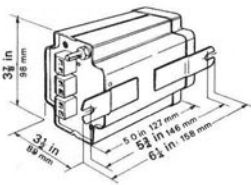
Type DV



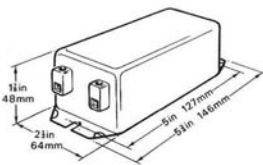
Type DT



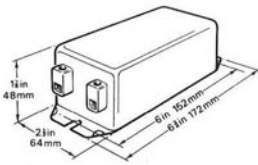
Type DS



Type R1



Type R2



# Circuit components for 400W, 700W and 1000W MBF, MBFR and MBF<sup>o</sup> Kolorlux mercury discharge lamps

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Lamp wattage	400W	700W	1000W
Circuit diagram (see below)	301	306	306

### Ballast

Catalogue No.(s)	AME 53193.4†	AME 53157.T+	AME 53198.4*‡	2 × AME 53243.4*‡
Weight	8.5lb 3.86kg	12lb 5.5kg	5.6lb 2.54kg	8.5lb 3.86kg (each)
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see below)	Type DS	Type DU	Type DT	Type DS
Can colour	White	White	White	White
Terminals	Screw	Screw	Screw	Screw

### Capacitor

Catalogue No.(s)	AME C2218	AME C2218+	AME C2214*	2 × AME C2236
Capacitance $\mu\text{F}$	20.0 $\pm 10\%$	20.0 $\pm 10\%$	13 $\pm 10\%$	25.0 $\pm 10\%$ (each)
Working volts	250V	250V	250V	250V
Terminals	Flying leads	Flying leads	Flying leads	Flying leads
Fused or unfused	Unfused	Unfused	Unfused	Unfused

### Other ballast voltage ratings available

220V 50Hz Catalogue No.	AME 53193.2‡	Not available	Not available	Not available
Illustrated type	Type DS	—	—	—
Can colour	White	—	—	—
Weight	8.5lb 3.86kg	—	—	—
200/250V 50Hz Catalogue No.	AME 53157.T	AME 53157.T+	AME 53158.T*	2 × AME 53164.T*
Illustrated type	Type DU	Type DU	Type DS	Type DU
Can colour	White	White	White	White
Weight	12lb 5.5kg	12lb 5.5kg	8.5lb 3.86kg	12lb 5.5kg (each)
Voltage tappings	200; 210; 220; 230; 240; 250V	210; 220; 230; 240; 250V	210; 220; 230; 240; 250V	190; 200; 210; 220; 230; 240V

\*2 connected in parallel are used for one lamp.

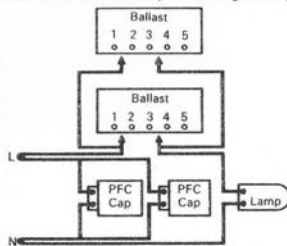
†The heat dissipation from these ballasts is extremely efficient and it is therefore necessary to ensure that cables in close proximity to the ballast surface are high temperature grade or suitably protected by high temperature sleeving.

See page 10:43 for full capacitor details.

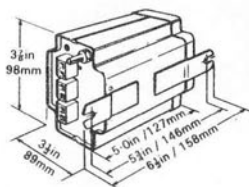
### 301 Circuit for MBF and MBFR Mercury discharge lamps.



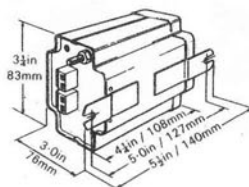
### 306 Circuit for 700W and 1000W MBF and MBFR Mercury discharge lamps.



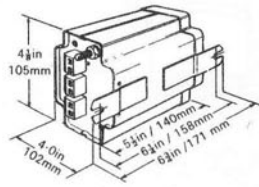
### Type DS



### Type DT



### Type DU





# Circuit components for 400W and 1000W mercury iodide discharge lamps

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Lamp wattage	400W	1000W
Circuit diagram (see below)	315	311

### Ballast

Catalogue No.(s)	AME 53193.T	AME 53247.4
Weight	8.5lb 3.86kg	52.5lb 24kg
Filling	Polyester resin	Polyester resin
Illustrated type (see below)	Type DS	Type DP
Can colour	White	Black
Terminals	Screw	Flying leads

### Ballast Fixing Bracket

Catalogue No.	—	AME M6181
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### Capacitor

Catalogue No.(s)	AME C2218	4 × AME C2236*
Capacitance $\mu$ F	20.0 $\pm$ 10%	25 $\pm$ 10% (each)
Working volts	250V	250V
Terminals	Flying leads	Flying leads
Fused or unfused	Unfused	Unfused

### Ignitor

Catalogue No.	AME 53262	—
Weight	1.12lb 0.51kg	—
Illustrated type (see below)	Type DB	—
Can finish	White	—
Terminals	Leads	—

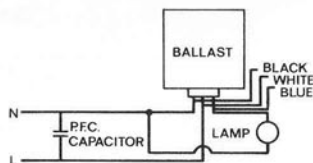
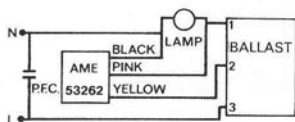
### Other ballast voltage ratings available

220V 50Hz	Not available	AME 53247.2
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\*Connected in parallel

**315** Circuit for 400W mercury iodide discharge lamp

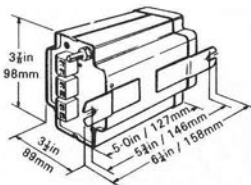
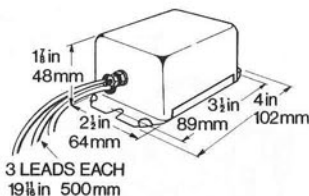
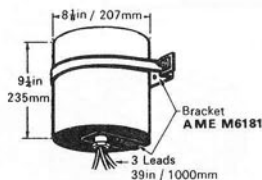
**311** Circuit for 1000W mercury iodide discharge lamp



Type DP

Type DB

Type DS



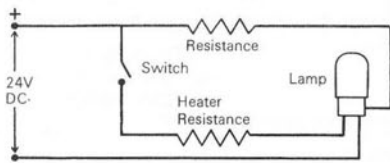
# Circuit components for M1 and M2 miniature mercury discharge lamps

## LAMP TYPE M1

### CONTROL GEAR FOR 24V D.C. OPERATION

Rating	4.5W
Supply Volts	24 d.c.
Series resistance†	24 ohms
Heater resistance†	30 ohms

†Supplied by installer



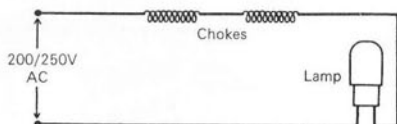
## LAMP TYPE M2

### CONTROL GEAR FOR 200/250V 50Hz A.C. OPERATION

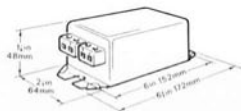
#### CHOKES (two required)

Catalogue No.	CI/80	+AME 62825
Weight	4.25lb 1.9kg	1.25lb 0.57kg
Filling	Polyester resin	Polyester resin
Illustrated type (see below)	Type A2	Type G
Can colour	White	White
Terminals	Screw	Leads

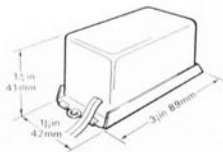
Alternatively series resistors of values between 480 and 160 ohms may be used in place of the two series chokes to give operating currents in the range 0.5 to 1.5 amps.



Type A2



Type G



# Circuit Components for MB/D, MBL/D, MBW/U and ME/D Mercury discharge lamps

## CONTROL GEAR FOR 200/250V 50Hz SUPPLY

Lamp	125W MB/D or 125W MBL/D or 125W MBW/U	250W ME/D	1000W ME/D
Circuit diagram (see opp.)	301	301	316

## CHOKES

Catalogue No.	AME 53159.T	AME 53235	4 x AME 53235
Weight	6.0lb 2.72kg	23lb 10.43kg (each)	23lb 10.43kg (each)
Filling	Polyester resin	—	—
Illustrated type (see opp.)	Type DT	Type DC	Type DC
Can colour	White	—	—
Terminals	Screw	Screw	Screw

## CAPACITORS

Catalogue No.	AME C2234	AME C2275	3 x AME C2276
Capacitance $\mu$ F	8.0 $\pm$ 10%	60 $\pm$ 10%	80 $\pm$ 10% (each)
Working volts	250V	250V	250V
Terminals	Flying leads	Screw	Screw
Illustrated type (see opp.)	†	Type CA	Type CB

## STARTING CAPACITOR

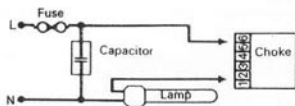
Capacitance $\mu$ F	—	—	0.5
Working Volts	—	—	1000V
Manufacturer and ref. no.	—	—	TCC type CP142W or equivalent

† See page 10:43 for full capacitor details.

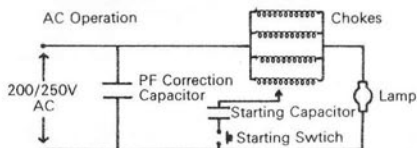
# Circuit components for MB/D, MBL/D, MBW/U and ME/D mercury discharge lamps

## CROSS SECTION

301 Circuit for MBF and MBFR Mercury discharge lamps

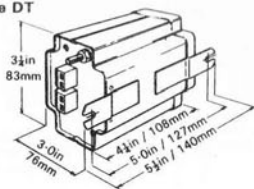


316 Circuit for 1000W ME/D lamp

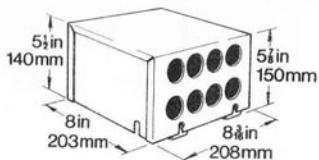


## CONTROL GEAR TYPES

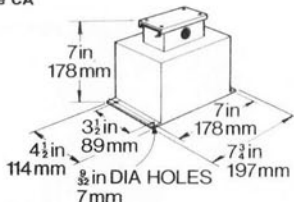
Type DT



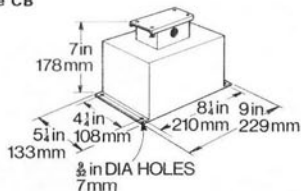
Type DC



Type CA



Type CB



# Circuit Components for CSI Compact Source and MBI/L linear metal halide discharge lamps

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Lamp	750W MBI/L	1200W or 1600W MBI/L	400W CSI	1000W CSI
Circuit diagram	311	312	318	317

### Ballast

Catalogue No.(s)	AME 53254.4	2 × AME 53254.4	AME 53196.4	AME 53255
Weight	51lb 8 oz 23.2kg	51lb 8oz 23.2kg (each)	26lb 11.8kg	60lb 27.2kg
Filling	Polyester resin	Polyester resin	—	—
Illustrated type	Type DP	Type DP	Type DD	Type DE
Can colour	Black	Black	Light grey	Black/White
Terminals	Leads	Leads	Screw	Screw

### Ballast Fixing Bracket

Catalogue No.	AME M6181	2 × AME M6181	—	—
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### Capacitor

Catalogue No.(s)	4 × AME C2236	8 × AME C2236	—	8 × AME C2236
Capacitance $\mu$ F	25 ± 10% (each)	25 ± 10% (each)	—	25 ± 10% (each)
Working volts	250V	250V	—	250V
Terminals	Flying leads	Flying leads	—	Flying leads
Fused or unfused	Unfused	Unfused	—	Unfused

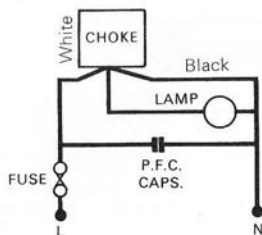
### Other ballast voltage ratings available

220V 50Hz	Not available	Not available	AME 53196.2	AME 53255
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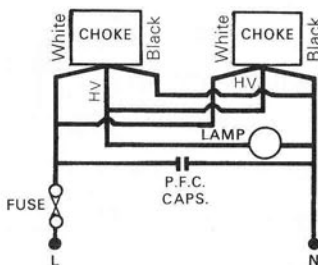
# Circuit components for CSI compact source and MBI/L linear metal halide discharge lamps

## CIRCUIT DIAGRAMS

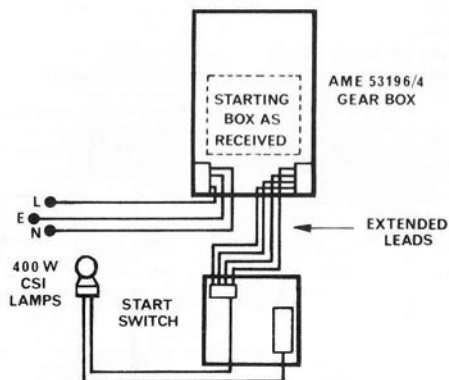
311 Circuit for 750W MBIL lamp



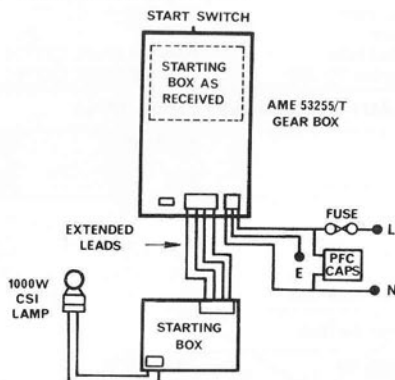
312 Circuit for 1200W/1600W MBIL lamp



318 Circuit for 400W CSI lamp

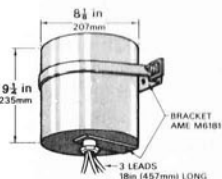


317 Circuit for 1000W CSI lamp

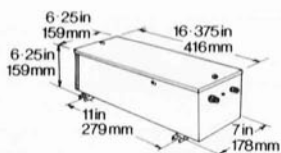


## CONTROL GEAR TYPES

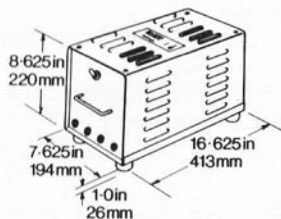
Type DP



Type DD



Type DE



# Circuit components for XB and XE/D compact source Xenon discharge lamps

## A.C. LAMPS 200/250V 50Hz

Lamp	250W XE/D	500W XE/D	1000W XB
Circuit diagram (see opp.)	320	320	320

### Ballasts

Catalogue Nos.	4 × AME 53235	6 × AME 53235	6 × AME 53235
Weight	23lb 10·4kg (each)	23lb 10·4kg (each)	23lb 10·4kg (each)
Illustrated type (see opp.)	Type DC	Type DC	Type DC
Terminals	Screw	Screw	Screw

### Starter

Catalogue No.	AME 53239	AME 53239	AME 53239
Weight	13lb 5·9kg	13lb 5·9kg	13lb 5·9kg
Illustrated type (see opp.)	Type DF	Type DF	Type DF

### Capacitors

Catalogue Nos.	2 × AME C2276 (160 μF) or 2 × AME C2275 + AME C2276 (200 μF)	3 × AME C2276 (240 μF) or 3 × AME C2276 + AME C2275 (300 μF)	3 × AME C2276 (240 μF) or 3 × AME C2276 + AME C2275 (300 μF)
Mains current	5A (160 μF) 2A (200 μF)	8½A (240 μF) 4½A (300 μF)	7½A (240 μF) 5A (300 μF)
Working volts	250V	250V	250V
Terminals	Screw	Screw	Screw
Illustrated type (see page 10:35)	Type CA (AME C2275) Type CB (AME C2276)	Type CA (AME C2275) Type CB (AME C2276)	Type CA (AME C2275) Type CB (AME C2276)

## D.C. LAMPS ON 200/250V 50Hz SUPPLY

Lamp	250W XE/D	500W XE/D	2000W XE/D 2 electrode	2000W XE/D 3 electrode
Circuit diagram	323	323	323	324

### Starter

Catalogue No.	AME 53239	AME 53239	AME 53233	AME 53234
Weight	13lb 5·9kg	13lb 5·9kg	28lb 12·7kg	9lb 4·1kg
Illustrated type (see opp.)	Type DF	Type DF	Type DG	Type DH

### Rectifier ballast

Catalogue No.	AME 53236	AME 53236	AME 53237	AME 53238
Weight	85lb 37kg	85lb 37kg	400lb 180kg	400lb 180kg
Illustrated type (see opp.)	Type DI	Type DI	Type DK	Type DL

## D.C. LAMPS ON 35/65V D.C. SUPPLY

Lamp	250W XE/D	500W XE/D	2000W XE/D 2 electrode	2000W XE/D 3 electrode
Circuit diagram	321	321	321	322

### Starter

Catalogue No.	AME 53239	AME 53239	AME 53233	AME 53234
Weight	13lb 5·9kg	13lb 5·9kg	28lb 12·7kg	9lb 4·1kg
Illustrated type (see opp.)	Type DF	Type DF	Type DG	Type DH

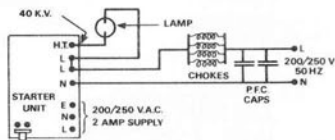
### Series resistance

Resistance value (ohms)	V—16·5	V—25	V—25	V—27
	15	23	80	74
Current (amps)	15A	23A	80A	74A

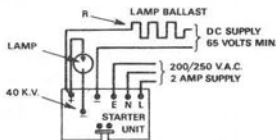
# Circuit components for XB and XE/D compact source xenon discharge lamps

## CIRCUIT DIAGRAMS

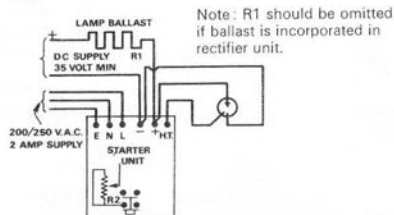
320 Circuit for a.c. lamps on 200/250V 50Hz supply



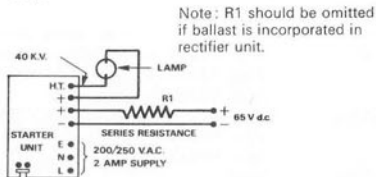
321 Circuit for 2000W 2-electrode lamp



322 Circuit for 2000W 3-electrode lamp

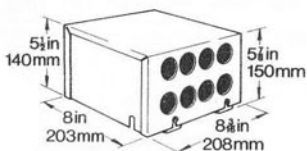


323 Circuit for 250/500W d.c. lamps

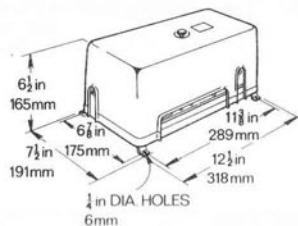


## CONTROL GEAR TYPES

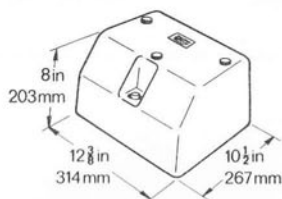
Type DC



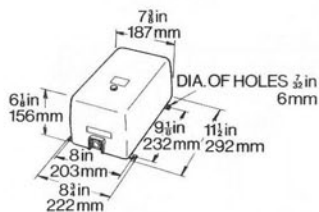
Type DF



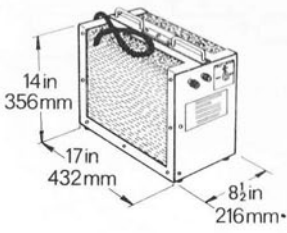
Type DG



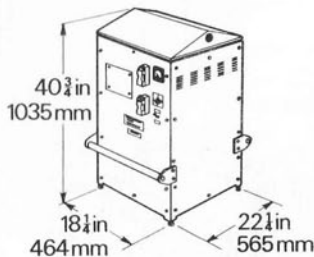
Type DH



Type DI



Type DK





# Circuit components for SO, SOI, SOX and SLI sodium discharge lamps

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Lamp	45, 60, 85W SO/H or SOI/H or 35, 55W SOX	140W SO/H, SOI/H or SLI/H or 90W SOX	135W SOX or 180W SOX	200W SLI/H
Type of control gear	Instant start	Instant start	Instant start	Instant start
Circuit diagram (see below)	305	307	304	302

## Ballast

Catalogue No.	AME 53131.H	AME 53232.4	AME 53166.T	AME 53172.T
Weight	9-0lb 4-1kg	12-6lb 5-82kg	15-5lb 7-09kg	15-5lb 7-09kg
Filling	Polyester resin	Polyester resin	Polyester resin	Polyester resin
Illustrated type (see below)	Type DJ	Type DU	Type DY	Type DY
Can colour	White	White	White	White
Terminals	Screw	Screw	Screw	Screw

## Capacitor

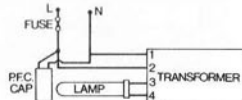
Catalogue No.	AME C2216 (for 45/60W) AME C2214 (for 55W) AME C2280 (for 35/55W)	AME C2218 (for 140W) AME C2236 (for 90W)	AME C2281	2 × AME C2235
Capacitance $\mu$ F	15 ± 10% (for 45/60W) 13 ± 10% (for 85W) 16 ± 10% (for 35/55W)	20 ± 10% (for 140W) 25 ± 10% (for 90W)	13 ± 5%	30-0 ± 10% (each)
Working volts	250V	250V	440V	300V
Terminals	Flying leads	Flying leads	Flying leads	Flying leads
Fused or unfused	Unfused	Unfused	Unfused	Unfused

## Other ballast voltage ratings available

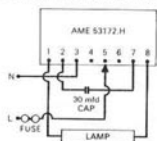
220V 50Hz	Not available	AME 53232.2	Not available	Not available
220/250V 50Hz	AME 53131.H	AME 53178.H	AME 53166.T	AME 53172.T
Tappings	220; 230; 240; 250V	220; 230; 240; 250V	190; 200; 210; 220 230; 240; 250; 260V	190; 200; 210; 220; 230; 240; 250; 260V

See page 10:43 for full capacitor details

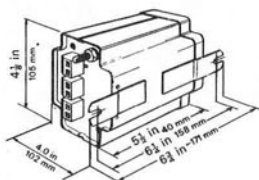
**307** Circuit for 140W SO/H, SOI/H, or SLI/H and 90W SOX



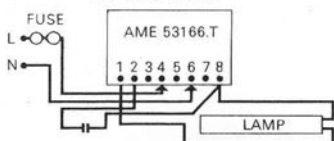
**302** Circuit for 200W SLI/H sodium discharge lamp



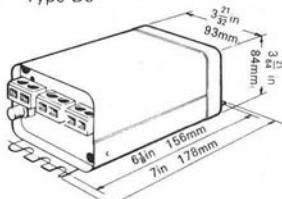
Type DU



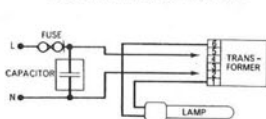
**304** Circuit for 135W SOX sodium discharge lamp.



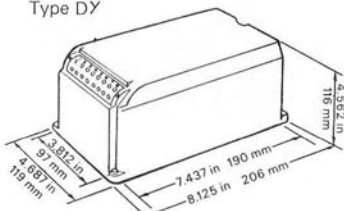
Type DJ



**305** 45W/60W/85W/SO/H and SOI/H 35W/55W/SOX



Type DY



# Circuit components for 250W and 400W SON high-pressure sodium discharge lamps

## CONTROL GEAR FOR 240V 50Hz SUPPLY

Lamp wattage	250W	400W
Circuit diagram (see below)	315	315

### Ballast

Catalogue No.	AME 53251.T	AME 53230.T
Weight	8.5lb 3.8kg	12.55lb 5.7kg
Filling	Polyester resin	Polyester resin
Illustrated type (see below)	Type DS	Type DU
Can colour	White	White
Terminals	Screw	Screw

### Capacitor

Catalogue No.	AME C2235	2 × AME C2218
Capacitance $\mu\text{F}$	30.0 $\pm$ 10%	20.0 $\pm$ 10% (each)
Working volts	300V	250V
Terminals	Flying leads	Flying leads
Fused or unfused	Unfused	Unfused

### Ignitor

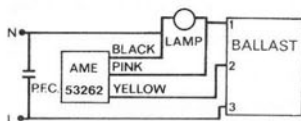
Catalogue No.	AME 53262	AME 53262
Weight	1.12lb 0.51kg	1.12lb 0.51kg
Illustrated type (see below)	Type DB	Type DB
Can finish	White	White
Terminals	Flying leads	Flying leads

### Other ballast voltage ratings available

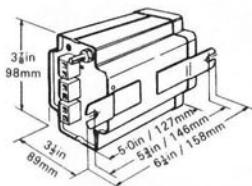
220V 50Hz	AME 53251.T	AME 53230.T
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See page 10:43 for full capacitor details.

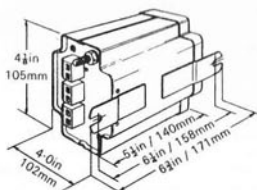
**315** Circuit for 250W or 400W SON high-pressure Sodium lamp



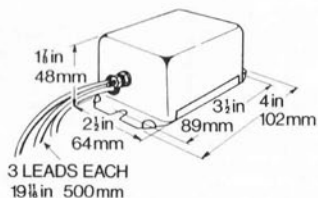
Type DS



Type DU

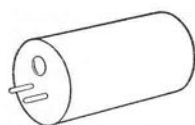


Type DB

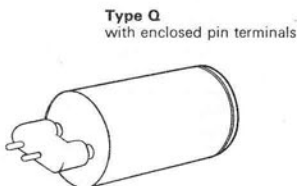


# Capacitors for fluorescent tube circuits

## STANDARD PFC AND SERIES CAPACITORS To BS4017



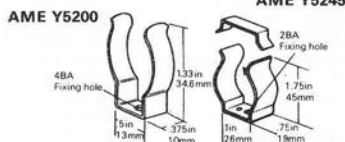
**Type R**  
with pin terminals



**Type Q**  
with enclosed pin terminals

## CAPACITOR SUPPORT CLIPS

AME Y5244 - For 1 1/2 in dia. capacitors  
 AME Y5245 - Clip for AME Y5244  
 AME Y5200 - For 1 in dia. capacitors



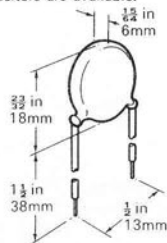
**AME Y5244**

Catalogue No. Pin Terminals	Tag Terminals	Capacitance ( $\mu$ F)	Fused or Unfused	Rated Voltage	Type	Dia. in mm	Length* in mm	Weight oz g	Use
AME C2220	AME C2200	8.4 $\pm$ 5%	Unfused	250V	R or Q	1 1/2 38	4 102	5 142	6ft 85W/5ft 65W SRS
AME C2222	AME C2202	8.0 $\pm$ 10%	Unfused	250V	R or Q	1 1/2 38	3 3/8 99	7 199	5ft 80W/2ft 40W SS/OS
AME C2221	AME C2201	8.0 $\pm$ 10%	Fused	250V	R or Q	1 1/2 38	3 3/8 99	7 199	5ft 80W/2ft 40W SS/OS
AME C2228	AME C2185	7.8 $\pm$ 5%	Unfused	440V	R or Q	1 1/2 38	7 3/8 200	12 353	8ft 125W QS
AME C2173	AME C2181	7.2 $\pm$ 5%	Unfused	440V	R or Q	1 1/2 38	7 3/8 200	12 340	8ft 125W SS
AME C2223	AME C2203	6.0 $\pm$ 10%	Fused	250V	R or Q	1 1/2 38	3 3/8 80	5 142	6ft 85W SS
AME C2273	AME C2168	5.5 $\pm$ 10%	Unfused	250V	R or Q	1 1/2 38	3 3/8 89	6 180	40W SRS
AME C2226	AME C2206	5.0 $\pm$ 5%	Unfused	440V	R or Q	1 1/2 38	6 3/8 156	8 227	8ft 85W QS
AME C2245	—	5.0 $\pm$ 10%	Fused	250V	R or Q	1 1/2 38	3 3/8 80	6 170	5ft 65W SS
AME C2224	AME C2204	3.5 $\pm$ 10%	Unfused	250V	R or Q	1 1/2 38	2 1/4 57	4 113	20/30/40W SS/OS
AME C2225	AME C2205	3.5 $\pm$ 10%	Fused	250V	R or Q	1 1/2 38	2 1/4 57	4 113	20/30/40W SS/OS
AME C2227	AME C2156	3.0 $\pm$ 10%	Fused	250V	R	1 1/4 32	3 3/8 78	3 99	3ft 30W Arrowslim fitting
AME C2229	AME C2163	2.85 $\pm$ 5%	Unfused	440V	R	1 1/4 32	6 3/8 156	7 199	5ft 50W Arrowslim fitting
—	AME C2286	2.0 $\pm$ 10%	Fused	250V	R	1 26	2 1/4 69	2 56	13/8/6/4W SS

\*Length, above, is can length only. Pin terminals project 9mm (3/8 in) on Type R capacitors and 28mm (1 1/8 in) on Type Q capacitors. Tag terminals project 13mm (1/2 in) on Type R capacitors and 29mm (1 1/8 in) on Type Q capacitors.

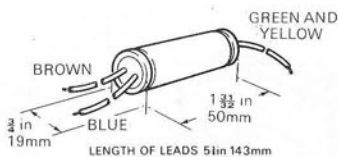
## RADIO INTERFERENCE SUPPRESSION CAPACITORS

All starter switches and starting transformers shown in this catalogue incorporate a 0.005 $\mu$ F radio interference suppressor. For additional suppression the following capacitors are available.



**AME C2139**

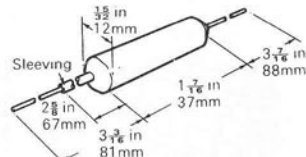
A ceramic base 0.005 $\mu$ F 800V a.c. capacitor to BS 4017 with high temperature PVC sleeved 1 1/2 in leads.



**AME C2051**

A radio interference suppression filter network comprising two 0.005 $\mu$ F and one 0.1 $\mu$ F delta connected for additional suppression where the AME C2139, fails to suppress the interference.

## ARTIFICIAL EARTH



**AME C2050**

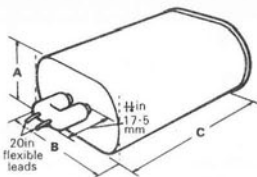
An artificial earth unit for connection between the tube earth strip, or a metal chassis in close proximity to the tube, and neutral when no earth is available.

# Capacitors for mercury and sodium discharge lamp circuits

Catalogue No.	Capacitance $\mu\text{F}$	Working voltage	Dimensions Depth A		Width B		Height C	
			in	mm	in	mm	in	mm
AME C2203†	$6 \pm 10\%$	250	$1\frac{1}{2}$	38	$1\frac{1}{2}$	38	$3\frac{1}{8}$	80
AME C2234	$8 \pm 10\%$	250	$1\frac{3}{8}$	35	$2\frac{1}{8}$	54	$2\frac{3}{8}$	70
AME C2214	$13 \pm 10\%$	250	2	51	3	77	$2\frac{3}{8}$	67
AME C2281	$13 \pm 5\%$	440	2	51	3	77	$4\frac{1}{8}$	105
AME C2216	$15 \pm 10\%$	250	2	51	3	77	3	76
AME C2288	$17.5 \pm 5\%$	350	2	51	3	77	$5\frac{3}{8}$	137
AME C2232	$18 \pm 10\%$	250	2	51	3	77	$3\frac{1}{2}$	89
AME C2278	$15 \pm 5\%$	350	2	51	3	77	$4\frac{3}{8}$	121
AME C2280	$16 \pm 10\%$	250	2	51	3	77	3	76
AME C2218	$20 \pm 10\%$	250	2	51	3	77	$3\frac{3}{8}$	92
AME C2236	$25 \pm 10\%$	250	2	51	3	77	$4\frac{1}{2}$	115
AME C2235	$30 \pm 10\%$	300	$2\frac{1}{2}$	64	$3\frac{1}{2}$	89	$5\frac{1}{4}$	133

† For use in fittings only. This unit has solder tag terminals

This range of capacitors is unfused and suitable for continuous operation in the temperature range  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ . Fixing is achieved by means of a removable saddle which clips over the capacitor, and vertically. The capacitor is packed complete with saddle.



## CAPACITOR CLIPS

### AME Y5292

For  $2\frac{1}{8}$ in (54mm) x  $1\frac{3}{8}$ in (35mm) capacitors



### AME Y5293

For  $3\frac{1}{2}$ in (89mm) x  $2\frac{1}{8}$ in (64mm) capacitors



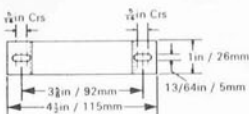
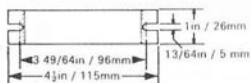
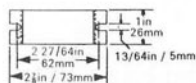
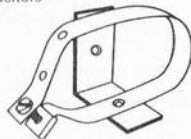
### AME Y5279

For 3in (77mm) x 2in (51mm) capacitors



### AME Y5242

Universal fixing bracket for  $3\frac{1}{2}$ in (89mm) x  $2\frac{1}{8}$ in (64mm) and 3in (77mm) x 2in (51mm) capacitors

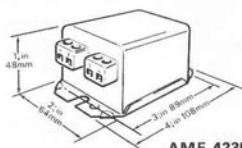


2BA fixing holes allow horizontal or vertical mounting

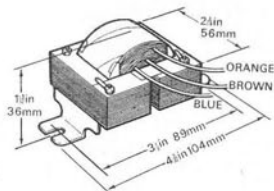
### SUPPLY VOLTAGE STEP-UP TRANSFORMERS

(used in conjunction with 240V circuits)

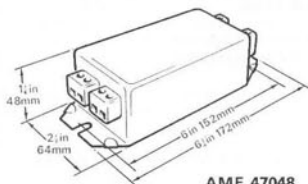
Catalogue No.	AME 42343	AME 42350	AME 42355	AME 47048
Voltage input	220V	220V	200/210V	110V
Max. tube length, wattage and circuit	8ft 125W SS — —	8ft 125W SS 8ft 125W QS 8ft 85W QS 8ft 85W SRS	8ft 125W QS 8ft 85W QS 6ft 85W SRS —	5ft 80W SS 5ft 65W SS/SRS 4ft 40W SS/QS —
Weight	1lb 0-45kg	2lb 0-9kg	2lb 0-9kg	4-125lb 1-86kg
Insulation	Varnish	Polyester resin	Polyester resin	Polyester resin
Can colour	Natural	White	White	White
Terminals	Leads	Screw	Screw	Screw



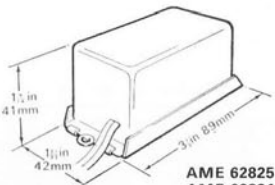
**AME 42350  
AME 42355**



LENGTH OF LEADS 12in 305mm  
**AME 42343**



**AME 47048**



**AME 62825  
AME 62824**

### CONVERSION CHOKES (50Hz supply)

Used in series with 200/210V choke on 240/250V supply

Catalogue No.	Tube	Weight lb	Weight kg	Insulation	Can colour	Terminals
AME 62825	5ft 80W	1 1/4	0-57	Polyester resin	White	Leads
AME 62824	4ft 40W	1 1/4	0-57	Polyester resin	White	Leads

### EMERGENCY LIGHTING SYSTEM FOR USE WITH TRANSISTORISED FLUORESCENT FITTINGS

Automatic emergency lighting prevents hazards and panic should the mains supply fail. Atlas Transistorised Miniature fittings with an efficiency three to four times greater than the corresponding tungsten lamps make the maximum use of standby batteries.

Catalogue No. AME R2463

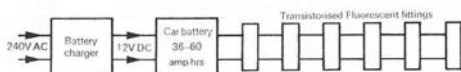
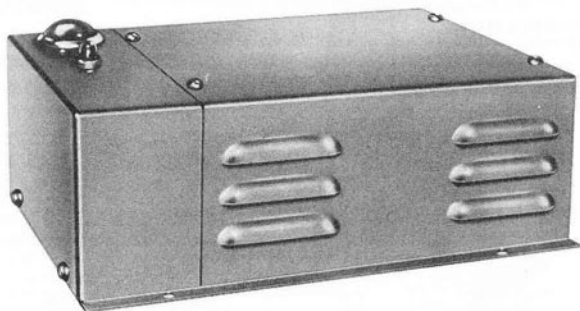
A fully automatic 12V battery charger complete with mains hold-off relay.

Suitable for use with

6 - 13W 21in Transistorised Miniature fittings or  
8 - 8W 12in Transistorised Miniature fittings

Dimensions - Length 12 3/4 in (289mm)  
Height 7 3/4 in (197mm)  
Depth 4 1/4 in (124mm)

See catalogue Page 1 :28 for details of miniature fluorescent fittings.



# Combined ballast units for fluorescent tubes

A range of 240V 50Hz HPF and LPF ballasts incorporating all necessary circuit components in one can.

These ballasts provide completely self-contained units ideal for mounting at some distance away from the tube or, alternatively, for use adjacent to the tube when shortage of space prevents the use of a complete fluorescent fitting.

These units are ideal for mounting within interior signs, or within suitably designed exterior signs, and are also used for some showcase lighting and in certain architectural features such as alcoves, pelmets, etc.

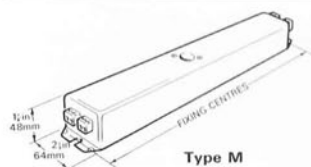
All ballasts have screw terminal connections.

When required, starter switches must be ordered separately.

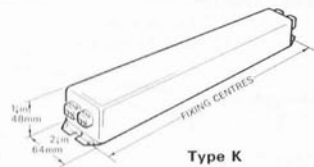
Catalogue No.	Use	Can Colour	Illustrated Type	Fixing Centres in	mm	Weight lb	kg
AME 63219-4	8ft 125W HPF SS	White	M	12½	317	5.75	2.6
AME 69194-4	8ft 125W HPF QS	White	P	16	406	10.25	4.5
AME 68028-4	6ft 85W/5ft 80W/2 × 2ft 40W* HPF SS	White	M	11½	292	5.25	2.4
AME 68041-4	5ft 80W HPF SRS	White	K	12½	317	6.75	3.00
AME 68061-4	5ft 65W HPF SS	White	M	10	254	4.0	1.8
AME 69161-4	5ft 65W HPF SRS	White	K	10½	267	4.75	2.2
AME 69090-4	5ft 50W HPF SRS	White	H	10½	267	3.5	1.6
AME 69054-4	4ft 40W/2 × 2ft 20* HPF SS	White	D	8½	216	2.5	1.1
AME 69064-4	4ft 40W HPF QS	White	H	9½	241	3.5	1.6
AME 69053-4	3ft 30W/2 × 18in 15* HPF SS	White	D	8½	216	2.5	1.1
AME 69063-4	3ft 30W HPF QS	White	H	9½	241	3.25	1.6
AME 69082-4	2 × 2ft 40W LPF QS	White	K	9	229	6.0	2.7
AME 69032-4	2 × 2ft 20W LPF QS	White	H	7½	190	3.0	1.4
AME 69195-4	2ft 20W/18in 15W LPF SS	White	D	8½	216	2.2	1.0
AME 69072-4	2ft 20W/18in 15W LPF QS	White	H	6½	165	2.75	1.3

SS = Switchstart QS = Quickstart SRS = Semi-resonant start

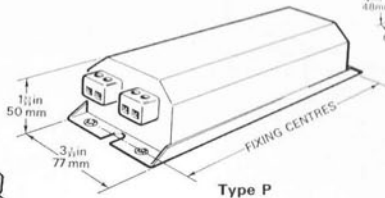
\*An additional starter switch socket (page 10.49) will be required when these units are used for series pair operation.



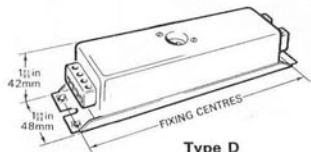
Type M



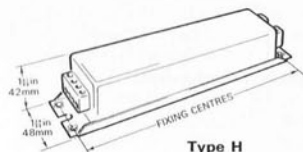
Type K



Type P



Type D



Type H

# Control gear boxes

## WEATHERPROOF BOXES FOR EXTERIOR USE

These boxes are made of sheet steel finished stove enamel acrylic grey to BS2660 9-094. A weatherproof seal is effected between lid and box by means of a closed cell neoprene sponge gasket. Two  $\frac{3}{8}$ in diameter holes are provided in one end of each box for supply and lamp connections. A wooden baseboard is fitted for control gear mounting and an earth terminal is available on one end.

These boxes are not supplied complete with control gear or terminal blocks.

### AME M6174

#### Internal dimensions

Length 16.75in (425mm)

Width 9.625in (244mm)

Height 5.125in (130mm)

#### External dimensions

Length 17.25in (437mm)

Width 9.75in (247mm)

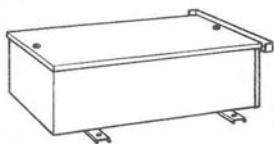
Height 6.125in (155mm)

#### Fixing centres

11in  $\times$  11in  $\times$  0.31in diameter  
(279mm) (279mm) (7.92mm)

#### Weight

12lb 14oz (5.84kg)



### AME M6172

#### Internal dimensions

Length 16.0in (406mm)

Width 5.68in (144mm)

Height 5.125in (130mm)

#### External dimensions

Length 16.563in (420mm)

Width 6.625in (168mm)

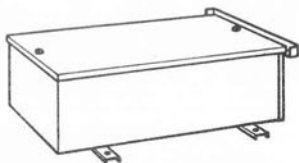
Height 6.438in (163mm)

#### Fixing centres

11in  $\times$  7in  $\times$  0.31in diameter  
(279mm) (178mm) (7.92mm)

#### Weight

8lb 4oz (3.74kg)



### AME M6169

This control gear box is made of high quality aluminium designed for exterior use to accommodate a large range of control gear.

#### Internal Dimensions

Length 15.25in (387mm)

Width 5.0in (127mm)

Height 4.75in (121mm)

#### External dimensions

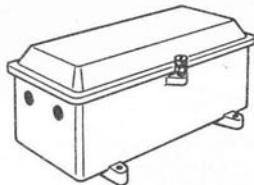
Length 16.75 in (425mm)

Width 8.0in (203mm)

Height 6.0in (152mm)

#### Weight

8lb 0oz (3.63kg)



## REMOTE BOXES FOR INTERIOR USE

These boxes are made of sheet steel finished stove enamel acrylic grey to BS2660 9-094. Two  $\frac{3}{8}$ in diameter holes are provided in one end of each box for supply and lamp connections to two-way 10A porcelain terminal blocks. A separate earth terminal is close to these blocks. Boxes are wired complete with 240V 50Hz HPF control gear.

**RBG1000** Gear box complete with 1000W MBF control gear

**RBG700** Gear box complete with 700W MBF control gear

### External dimensions

Length 17.06in (425mm)

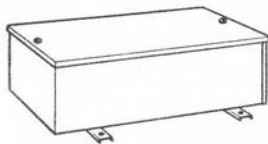
Width 9.75in (247mm)

Height 5.875in (149mm)

### Weights

RBG 1000 32lb 8oz (17.92kg)

RBG 700 30lb 12oz (13.95kg)



### Fixing centres

11in x 11in x 0.31in diameter

(279mm) (279mm) (7.92mm)

**RBG400** Gear box complete with 400W MBF control gear

**RBI G400** Gear box complete with 400W MBI control gear

**RBSG400** Gear box complete with 400W SON control gear

**RBSG250** Gear box complete with 250W SON control gear

**RBG250** Gear box complete with 250W MBF control gear

### External dimensions

Length 16.375in (416mm)

Width 6.18in (157mm)

Height 5.875in (149mm)

### Weights

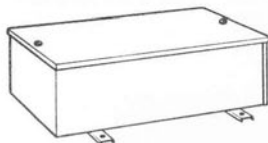
RBG400 17lb 11oz (8.05kg)

RBI G400 18lb 15oz (8.59kg)

RBSG400 18lb 0oz (8.17kg)

RBG250 14lb 1oz (6.35kg)

RBSG250 15lb 0oz (6.80kg)



### Fixing centres

11in x 7in x 0.31in diameter

(279mm) (178mm) (7.92mm)

## CONTROL GEAR BOXES FOR INTERIOR USE WITH 80/125W MBF KOLORLUX LAMPS

Enclosed gear trays fitted with 240V 50Hz HPF control gear wired to a fused terminal block for incoming mains supply and a two-way terminal block for lamp connection. Boxes finished gloss white externally.

**RBG125** Gear box complete with 125W MBF control gear.

**RBG80** Gear box complete with 80W MBF control gear.

### External dimensions

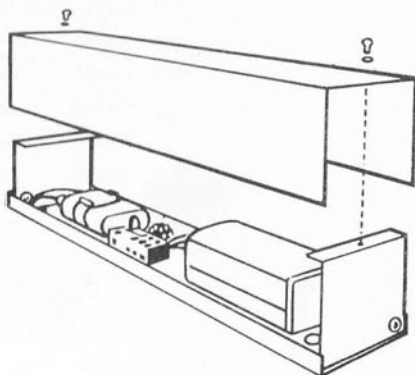
Length 13.25in (337mm)

Width 3.625in (92mm)

Height 3.25in (83mm)

### Fixing centres

11.5in (292mm) x 2in (51mm)



### Weights

RBG125 8lb 0oz (3.63kg)

RBG80 7lb 0oz (3.18kg)



# Starter switches

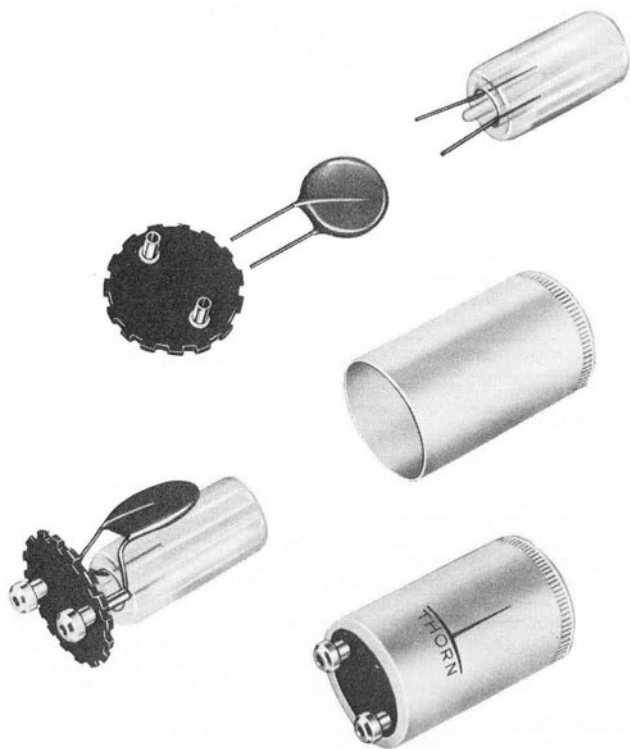
This range of starter switches in plastic canisters incorporates constructional features resulting in switches of high quality, reliability and appearance.

## CONSTRUCTIONAL FEATURES

- A** A high temperature grade of matt white polypropylene is used for the canister with brand detail in distinctive black ink. The canister is inherently electrically safe and non-corrodible. The plastic moulding is tremendously tough, difficult to squash, virtually unbreakable and cannot be dented. Plastic can switches are electrically and mechanically interchangeable with metal can types of equivalent rating.
- B** Solid pins are secured to the insulated base disc and solderless junctions connect these pins to the interior wiring.
- C** A ceramic disc type radio interference suppression capacitor is fitted internally to each canister. This type of RIS capacitor is far superior to the 'waxed paper and foil' type, since short circuit faults have been eliminated as a possible cause of failure.

The various stages in the production of standard Thorn Glowswitch starter switches are summarised in the illustration.

Individual components are welded together to form the bimetal contact assembly. After the completed glow-bottle is sealed off the lead wires of the bottle and ceramic disc suppressor are clamped inside the terminals. The plastic canister is then shrunk on to the insulated base disc. The serrated edge of the base disc combines with the plastic canister to give a strongly bonded seal.



## RANGE

2 pin ; small can ; a.c. glow switch

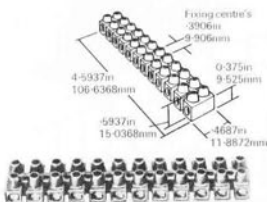
Catalogue No.	Application	Operating Voltage
155/800	8ft 125W leading circuit or 6ft 85W	230/250V
155/501	5ft 50W leading circuit	240V
155/500	4W, 6W, 8W, 13W, 30W, 32W, 4ft 40W, 65W or 80W	200/250V
155/400	4W, 6W, 8W, 30W 32W or 4ft 40W	200/250V
155/200	Single 15W, 20W 22W or 2ft 40W Series pair 15W, 20W or 2ft 40W (two 155/200)	105/250V 200/250V
155/100	Single 4W, 6W or 8W Series pair 4W, 6W or 8W (two 155/100)†	110/130V 230/250V

†Due to the asymmetrical construction of these switches, they must be placed in the starter switch sockets correctly orientated (i.e. if the switches refuse to operate, one must be removed and rotated 180 degrees)

# Terminal blocks, fuse holders and starter switch sockets

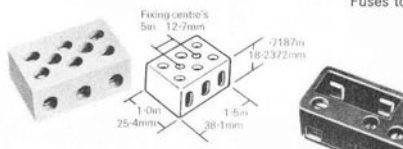
## AME T1281

A 5A 250V terminal block of brown PVC available in 12-way strips. Terminals can be cut off as required or supplied in cut form (suffix after Catalogue No. indicates number of through connections, eg. AME T1281/2 is a 2-way terminal block AME T1281/3 is a 3-way terminal block.)



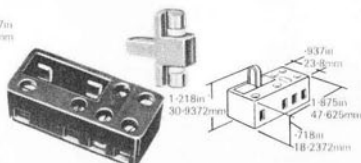
## AME T1306

A 10A 250V 3-way white porcelain terminal block. Inserts are of extruded brass with 0-125in x 0-118in obround bore barrels and pinch screw terminals. These inserts give facility for loop-in cables. Line, earth and neutral terminals clearly marked on terminal block.



## AME T1265

A mains circuit terminal block incorporating a fuse in the line circuit. Black phenolic moulded body with clear alkathene fuse carrier and pinch screw terminals. Earth and neutral connections are of the through barrel type and two line connections are provided for mains input and circuit feed. Back fixing is achieved by means of screw and shakeproof washer provided. For front fixing a 1/2in 6BA screw must be used which is not provided. Either method of fixing provides earth connection to chassis. Fuses to be ordered separately.



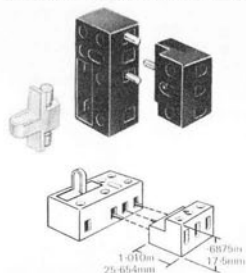
## AME T1334

White nylon end entry fuse holder which enables control units to be disconnected before maintenance. Fuse loading cap has bayonet-catch fixing and is finger or coin operated. Push wire terminals for single incoming and double outgoing. Fuses to be ordered separately.



## AME A5079

Combined fused terminal block with mains plug. Comprises fused block similar to AME T1265, above, but with pins in line and neutral barrels, and a black phenolic moulded plug with a pin in the earth barrel. Fuses to be ordered separately. AME A5037—replacement mains plug.



## FUSES

### AME T1268, T1299, T1332, T1342

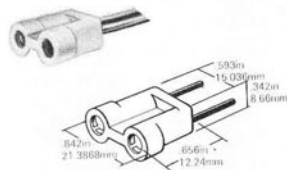
All fuses comply with BS1362 dimensions and must be used with T1265, A5079 and T1304 fuseholders.

Catalogue No.	Rating	Colour
AME T1342	1-25A	Orange
AME T1332	0-65A	Red
AME T1299	3A	Blue
AME T1268	5A	Black



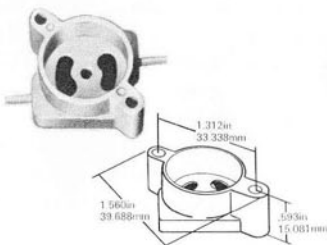
## AME M6064/12/Loop

White PVC moulding enclosing starter switch contacts crimped to 12in loop 16/0.2mm white PVC cable which can be cut at a point to suit wiring layout. This holder does not support the starter switch and the Y5274 black oil dipped spring steel clip can be supplied. The clip latches into a square hole (0-22in min. to 0-23in max. square) in the fittings chassis.



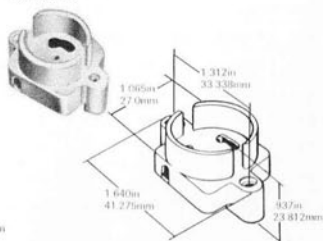
## AME A5016

White urea moulding with paxolin backplate. Brass switch contacts crimped to 12in loop 16/0.2mm white PVC cable which can be cut at a point to suit wiring layout. No earth contact available.



## AME A5019/X

White urea moulding with paxolin backplate. Side pressure switch contacts. Draw nut terminals giving side and rear cable entries. Optional extra earth clips (Catalogue No. Y5267) are held by the holder fixing screws and pass through gaps in the holder skirt. When mounted on 1/2in distance pieces behind fitting chassis the starter switch projects enough for easy removal.

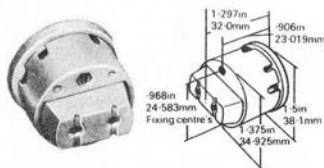


# Lampholders for fluorescent tubes

For T12 (1½ in, 38mm diameter) bi-pin fluorescent tubes

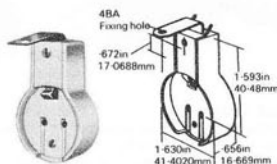
## AME B1502

White urea moulding with double-sided independently sprung tube pin contacts and pinch screw terminals for incoming cables. 6BA tubular tapped nuts are provided for fixing. Earth contact (Catalogue No. Y5240) is available as an optional extra. This holder is not suitable for use with 8ft tubes which have large tolerances in length.



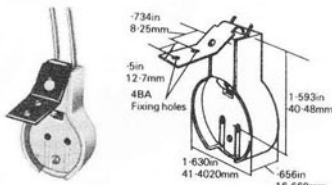
## AME B1548/A3

White urea mouldings with shroud to give tube cap support. Side pressure lamp pin contacts with incoming cable crimped to contacts. Cable is high temperature 16/0.2mm white PVC flexible in 12in loop which can be cut at any point to suit wiring layout. Other loop lengths available on request. This holder has no current carrying springs or moving parts. The bracket enables the holder to be mounted on a fixed or detachable bridge across the channel. A locating notch or other means must be provided to stop rotation. Lampholder is vertical with a nominal length tube.



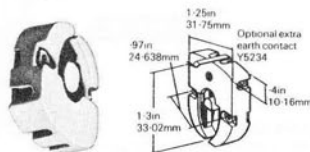
## AME B1548/B

Lampholder as AME B1548/A3, but with bracket requiring 2-hole fixing. This holder is for mounting direct on to fitting chassis when the wall of a 1½ in diameter (T12) tube will be ¼ in from the chassis. Lampholder is vertical with a nominal length tube.



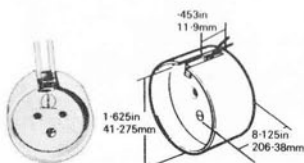
## AME B1524

White urea moulding with paxolin backplate. Single-sided tube contacts with pinch screw terminal for incoming cables. Earth contact Y5234 is available as an optional extra. 6BA tubular tapped nuts are provided for fixing. This lampholder is not suitable for use with 8ft tubes which have large tolerances in length.



## AME B1573

A white urea two-piece moulding with an earth spring and deep skirt which covers the tube cap giving additional support. Double-sided side-pressure contacts are crimped to 12in loop of high-temperature 16/0.2mm white PVC flexible cable. Earth lead connection is to lamp pin terminal.



## FIXING DETAILS

Dimensions below are distances between backs of lampholders. The dimensions given for AME B1512 and AME B1573 are for lampholders when fitted to the fluorescent tube. The dimensions for AME B1524 are recommended distances between backs of lampholders when mounted on support brackets.

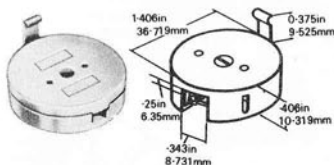
Dimensions given below for AME B1548/A3 are recommended distances between fixing centres. Dimensions for AME B1548/B are recommended distances between furthest fixing holes. Dimensions for AME B1502 are recommended distances between backs of lampholders when mounted on support brackets.

Tube size	AME B1512		AME B1573		AME B1524		AME B1548/A3		AME B1548/B		AME B1502		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
8ft	2,400mm	94-312	2,395-5	94-406	2,397-9	—	—	91-609	2,326-9	91-546	2,325-3	—	—
6ft	1,800mm	70-234	1,783-9	70-328	1,786-3	70-222	1,783-6	67-531	1,715-3	67-468	1,713-7	71-920	1,826-7
5ft	1,500mm	59-867	1,520-6	59-961	1,523-0	59-855	1,520-3	57-172	1,452-2	57-109	1,450-6	61-553	1,563-4
4ft	1,200mm	48-030	1,219-9	48-125	1,222-3	48-019	1,219-6	45-344	1,151-7	45-281	1,150-1	49-718	1,262-8
3ft	900mm	36-030	915-1	36-125	915-7	36-019	914-8	33-344	846-9	33-281	845-3	37-718	958-0
2ft	600mm	24-030	610-3	24-125	612-7	24-019	610-0	21-344	542-1	21-281	540-5	25-718	653-2
18in	450mm	18-030	457-9	18-125	460-3	18-019	457-6	15-344	389-7	15-281	388-1	19-718	500-8

# Lampholders for fluorescent tubes

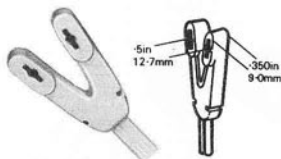
## AME B1512

A white urea two-piece moulding with earth clip and double-sided lamp pin contacts. Pinch screw cable terminals. A recess allows a neat termination of 2-core or 3-core flexible cable.



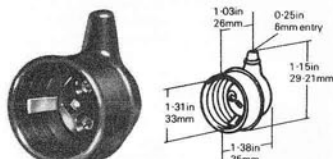
## AME B1529

A high-temperature white PVC moulding with double-sided brass contacts crimped to 48in flat twin 23/0076in white high-temperature PVC flexible cable. The extra firm contact grips make this holder suitable for vertical tubes subjected to vibration. No earth clip is available.



## AME B1577

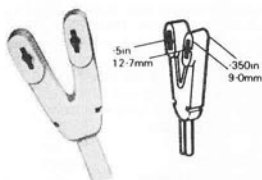
Push-on bi-pin lampholder has a neoprene sleeve which securely grips the end of the lamp and is fitted with a plastic insert containing lamp pin contacts and earthing arrangement for Quickstart lamps. This lampholder is useful for corrosive atmospheres and is drip-proof.



## For T8 (1in, 26mm diameter) bi-pin fluorescent tubes

### AME B1529

The AME B1529 tube holder shown for T12 tubes is also suitable for T8 tubes.



### AME B1555/Z

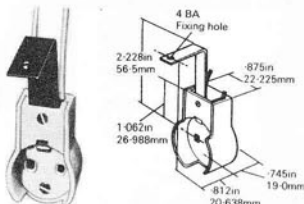
White urea mouldings with shroud to give tube cap support. Side pressure lamp pin contacts with incoming cable crimped to contacts. Cable is high temperature 16/0.2mm white PVC flexible in 12in loop which can be cut at any point to suit the wiring layout. Other loop lengths available on request. This holder has no current carrying springs or moving parts. The bracket enables the holder to be mounted on a fixed or detachable bridge across the channel.

A locating notch or other means must be provided to stop rotation. Lampholder is vertical with a nominal length tube.

## Fixing details

Dimensions below are recommended distances between fixing centres.

Tube size	in	mm
5ft	1,500mm	56-859
3ft	900mm	33-031
18in	450mm	15-031



## For T5 (5/8in, 15mm diameter) miniature bi-pin fluorescent tubes

### AME B1529

(Details for lampholder when used with 5/8in diameter - T5 - tubes only.) A high-temperature PVC moulding with double-sided brass contacts crimped to 48in flat twin 28/0.15mm white high-temperature PVC flexible cable. No earth contact available.

### AME B1561

White PVC moulding with paxolin insert. Plated brass contacts with solder tag connections. This holder is assembled by threading the incoming cables through the PVC moulding and soldering them to the solder tags on the paxolin insert. This insert is then pressed into the PVC moulding.

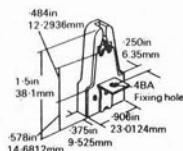
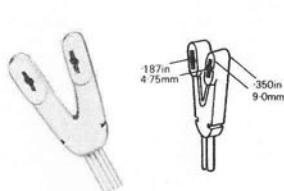
### AME B1556/2

White urea mouldings with bright steel bracket. Single-sided lamp pin contacts with pinch screw cable entry terminals.

## Fixing details

Dimensions below are recommended distances between fixing centres.

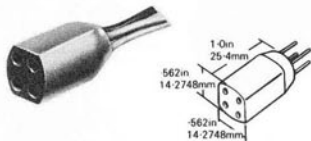
Tube size	in	mm
21in	525mm	19-844
12in	300mm	10-844
9in	225mm	7-844
6in	150mm	4-844



# Fluorescent tube lampholders and support clips

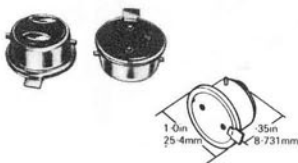
## Lampholder for circular fluorescent tubes AME B1535

A single moulding high-temperature white PVC body with 12in PVC 16/0.2mm leads (one pair, yellow for starter holder connection, one lead, white, for choke connection and one lead, blue, for connection to neutral supply terminal). Split cylinder grip pin brass contacts crimped to leads.



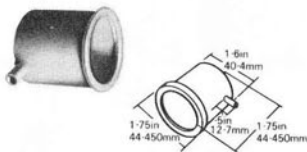
## Bi-pin to BC adaptor AME B1515

Bi-pin/BC adaptor with earth contact. A pair of these adaptors enables modern bi-pin tubes to be used where BC lampholders are fitted in a fitting. Two adaptors required per tube.



## Weatherproof sleeve (for T12 1½in, 38mm diameter) bi-pin fluorescent tubes AME M6028

White neoprene moulding suitable for use with AME B1512 lampholder. It is recommended that AC 1981 circular flex be used for connection to lampholder and the cable entry into the cap be made waterproof with silicone grease.



## AME Y5204, Y5200, Y5201

A range of bright zinc plated spring steel tube support clips which can be used around the glass of the tube or around the metal cap. When used around the lamp cap to earth the cap to the metalwork of the fitting chassis any paint should be scraped from the chassis to give good continuity.



Catalogue No.	Tube dia. in	mm	A in	mm	B in	mm	C in	mm
AME Y5204	½	16	0.2968	7.54	0.4062	10.3124	0.3125	7.9248
AME Y5200	1	26	0.5	12.7	0.7031	17.856	0.375	9.525
AME Y5201	1½	38	0.6562	16.6624	1.0312	26.1874	0.355	9.017

## AME Y5257

A nickel plated spring steel support clip for circular fluorescent tubes. Three clips are required per tube, mounted inside the tube circumference.

*Note:* The fixing details are approximate and must be adjusted to suit lamp used because of variation in lamp size from different manufacturers.

### Fixing details

22W tube: 5¼in radius  
32W tube: 9¼in radius  
40W tube: 13¼in radius

