





LIGHTING
CONSTRUCTION MANUAL

CONTROL WIRING

[Back to MAIN INDEX](#)

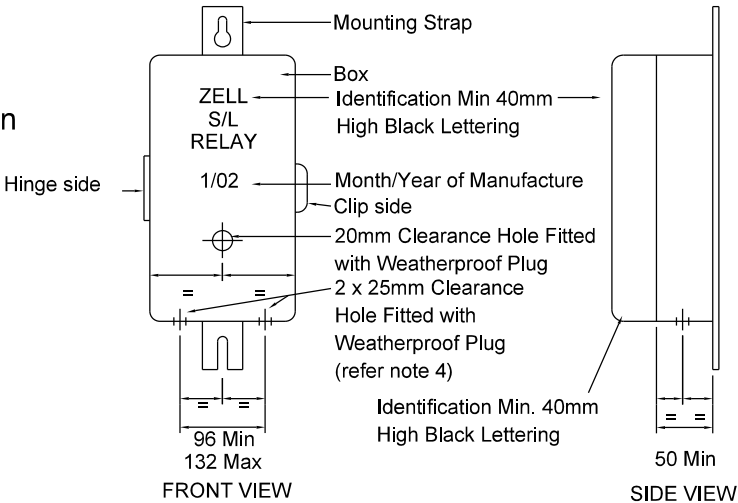
[Go to SECTION INDEX](#)

TYPE	DESCRIPTION	PAGE	TYPE	DESCRIPTION	PAGE
	Zellweger Streetlight Relay Box Layout & Wiring Details Streetlight Contactor Box Layout & Wiring Details Luminaire Control Gear Box Layout & Wiring Details Specification Drawing Streetlight Supply Box (Joint Use Only) Layout & Wiring Details	1-13-3-1 1-13-4-1 1-13-5-1 1-13-6-1			

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B	10.12.12				Approved Energex	Date					
		REFERENCE DRAWING ERGON			Checked	Date					
		This document must not be reproduced in part or whole without written permission from ENERGEX or Ergon Energy	HARD COPY UNCONTROLLED		P. Relf / A. Bletchly	04/04/13	EE DRWG NO: 1-13-1-1	VOLUME	FOLDER	PAGE	ISSUE
					Drawn	Date	EGX DRWG NO: 10500-A4-1-13-1-1	1	13	1-1	0B
					L. Burton / T. Borg	01/11/10					

NOTES:

- 1. Minimum size of wiring as stated, single core multistranded single insulated with min temperature rating of 75°C.
- 2. Overall dimensions of Box are nominal only - standard production units preferred. Gear Tray to be securely fixed to box.
- 3. Terminal blocks thus shown 'X' must be colour coded or labelled.
- 4. This is an optional requirement.



ZELLWEGER STREETLIGHT RELAY BOX

MANUFACTURE :

RATING :

TOLERANCE :

MATERIAL :

FABRICATION :

PROTECTIVE COAT :

MARKING :

STOCK CODE :

In accordance with drawing unless otherwise specified.

Box to suit maximum size of control gear configuration (i.e. largest)

±2.0mm unless otherwise specified

Box - Pressed or Cast Aluminium (Note 2)

Gear Box - Aluminium or Steel (Flat Sheet)

(a) Standard production box preferred. Note 2.

(b) All sharp edges and burrs to be removed.

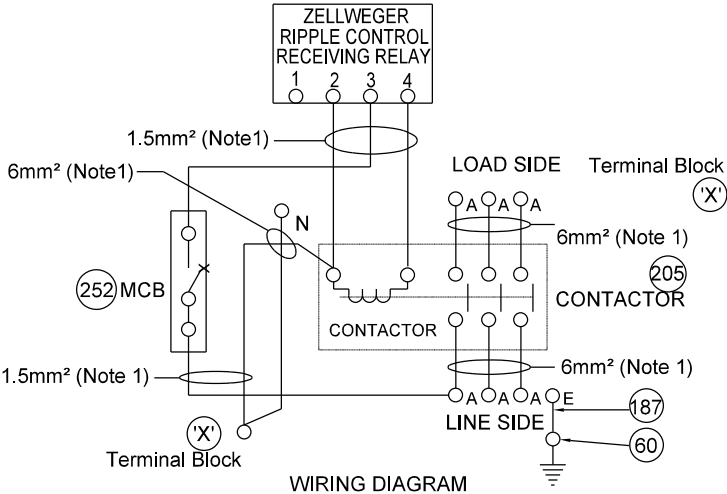
(c) Lid to be hinged on L/H Side when viewed from front.

Hot Dip Galvanised in accordance with AS 1650

As shown.

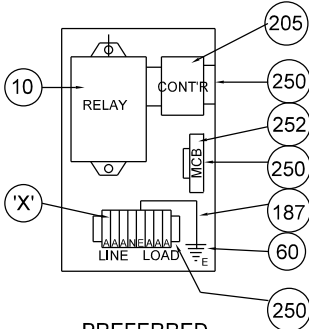
05399

PART	DESCRIPTION	S.C.	QTY
250	Mounting Rail, TH35 7.5	11173	AR
252	CB SP 240V 15/16A 6kA	15885	1
	Cast or Pressed Aluminium Box	-	1
205	Contactor 3P 415V 50/32A	05376	1
187	6mm² 7/1.01 PVC Cable G/Yellow	08345	AR
'X'	Terminal Block 35mm² Max. Cable	-	8
10	Relay, Audio Frequency	13300	1
60	Terminal Lug, W/- M6 Hole	06248	1
-	S/S Earth Stud Min. Size M4	-	1





WIRING DIAGRAM

NOTE:
Hole position offset towards lid by approx. 5mm to ensure clearance of PE Cell



PREFERRED LAYOUT OF GEAR TRAY

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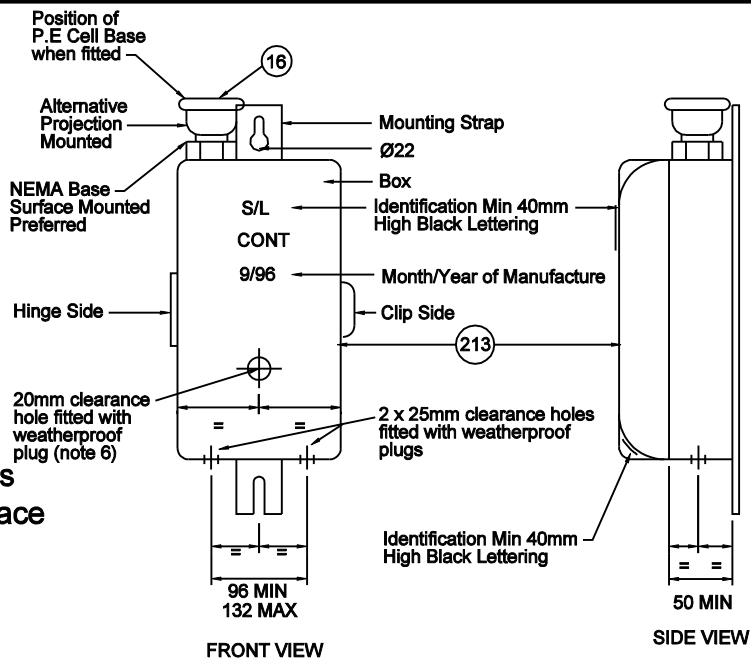
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LIGHTING
CONTROL WIRING - ENERGEX ONLY
ZELLWEGER STREETLIGHT RELAY BOX
LAYOUT & WIRING DETAILS

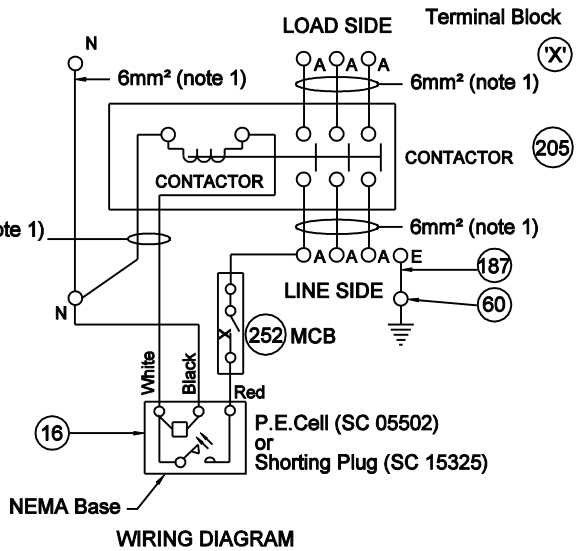
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EGX DRWG NO: 10500-A4-1-13-3-1	1	13	3-1	0B

NOTES:

- 1. Minimum size of wiring as stated, single core multistranded single insulated with min temperature rating of 75°C.
- 2. Overall dimensions of Box are nominal only - standard production units preferred. Gear Tray to be securely fixed to box.
- 3. Terminal blocks thus shown 'X' must be colour coded or labelled.
- 4. Additional Din. Rail mounted MCB's may be used on the load side in place of terminals if required (Q.T.).
- 5. For Non PE Cell application use shorting plug (SC 15325).
- 6. This is an optional item.



STREETLIGHT CONTACTOR BOX



WIRING DIAGRAM

MANUFACTURE : In accordance with drawing unless otherwise specified.

RATING : Box to suit maximum size of control gear configuration (i.e. largest)

TOLERANCE : ±2.0mm unless otherwise specified

MATERIAL : Box - Pressed or Cast Aluminium (Note 2)
Gear Box - Aluminium or Steel (Flat Sheet)

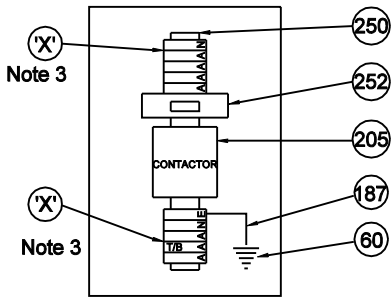
FABRICATION : (a) Standard production box preferred. Note 2.
(b) All sharp edges and burrs to be removed.
(c) Lid to be hinged on L/H Side when viewed from front.

PROTECTIVE COAT : Steel Gear Tray - Electro Galvanised or similar

MARKING : S/L supply & Month/Year Manufacture eg. 9/96

STOCK CODE: 14776

NOTES :
Hole position offset towards lid by approximately 5mm to ensure clearance of PE Cell.



PREFERRED LAYOUT OF GEAR TRAY

PART	DESCRIPTION	S.C.	QTY
250	Mounting Rail, TH35 7.5	11173	AR
252	CB SP 240V 15/16A 6kA	15885	1
213	Cast or Pressed Aluminium Box	-	1
205	Contactor 3P 415V 50/32A	05376	1
187	6mm² 7/1.01 PVC Cable G/Yellow	08345	AR
'X'	Terminal Block 35mm² Max. Cable	-	8
16	NEMA Base	-	1
60	Terminal Lug, W/- M6 Hole	06248	1
-	S/S Earth Stud Min. Size M4	-	1

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ORIGINAL ISSUE

REFERENCE DRAWING ENERGEX

4927-A4-12.2

REFERENCE DRAWING ERGON

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Approved Ergon
J. Brooks
14/10/10

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14/10/10

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14/10/10

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LIGHTING

CONTROL WIRING - ENERGEX ONLY

STREETLIGHT CONTACTOR BOX

LAYOUT & WIRING DETAILS

EE DRWG NO: 1-13-4-1

EGX DRWG NO: 10500-A4-1-13-4-1

VOLUME

1

FOLDER

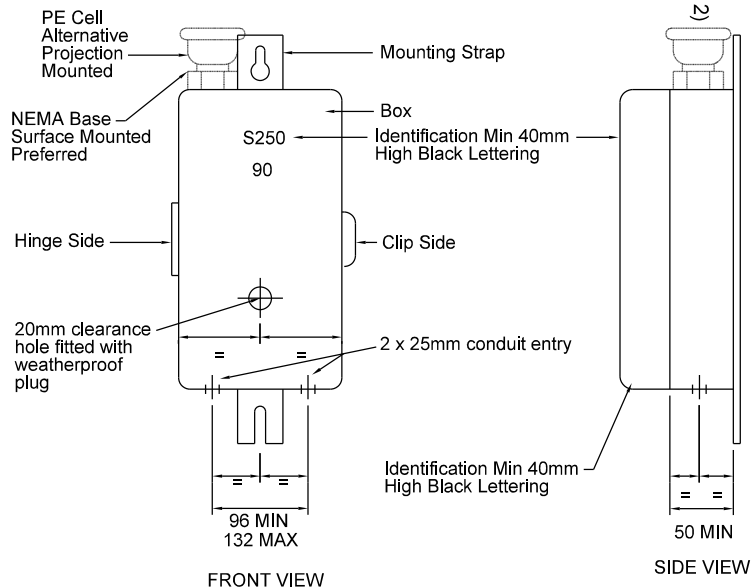
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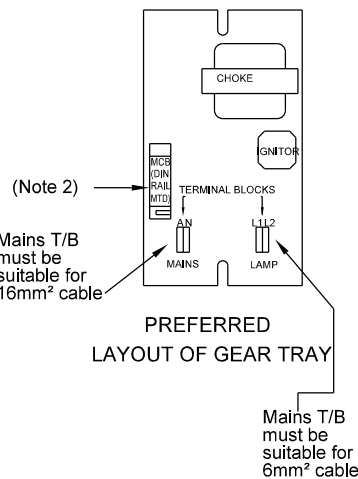
4-1

ISSUE

0A



CONTROL GEAR BOX



MANUFACTURE :

RATING :

TOLERANCE :

MATERIAL :

FABRICATION :

PROTECTIVE COAT :

MARKING :

STOCK CODE:

In accordance with drawing unless otherwise specified.

Box to suit maximum size of control gear configuration (i.e. largest) ±2.0mm unless otherwise specified

Box - Pressed or Cast Aluminium

Gear Box - Aluminium or Steel (Flat Sheet)

- (a) Standard production box preferred.
- (b) All sharp edges and burrs to be removed.
- (c) Lid to be hinged on L/H Side when viewed from front.

Steel Gear Tray - Electro Galvanised or similar

M400, S150, S250, S400. (Refer Specification)

S150 - 12423

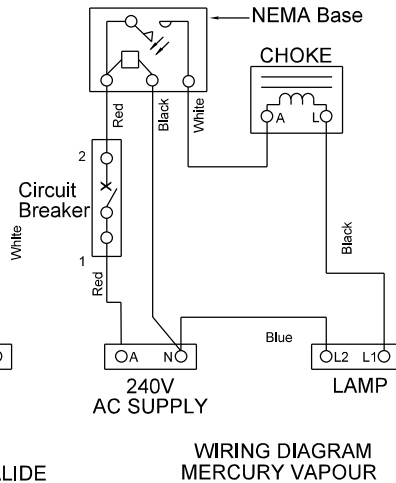
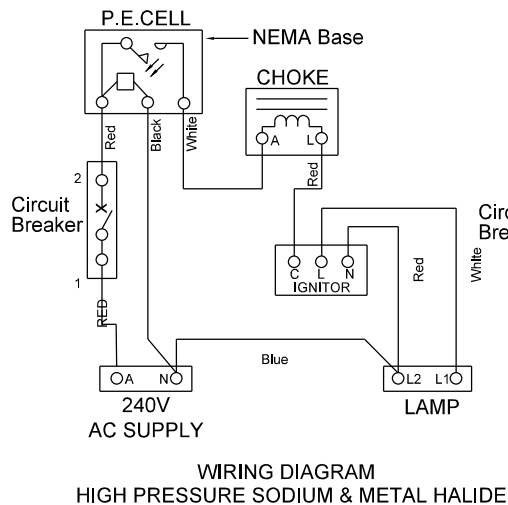
S250 - 12424



S400 - 12425

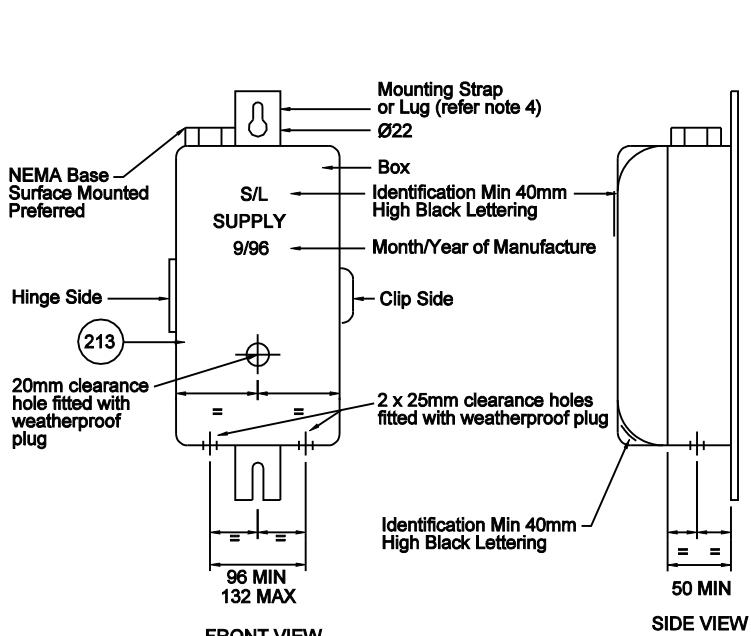
M400 - 05514

NOTES:

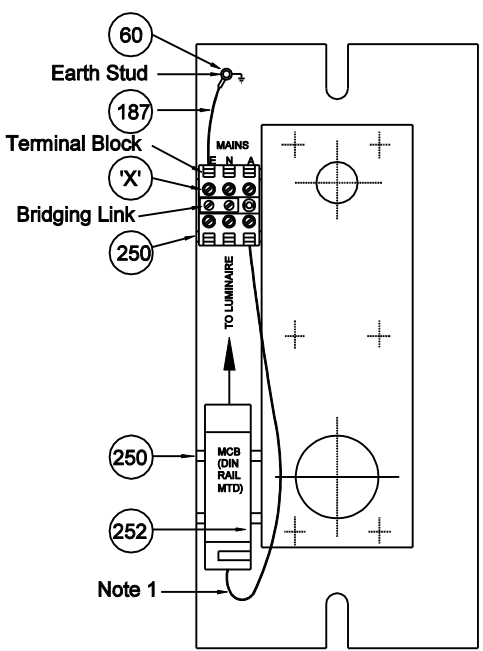
1. Minimum size of wiring to be 1.5mm single core multistranded single insulated with min temperature rating of 105°C.
2. MCB to be 15/16A 6kA.



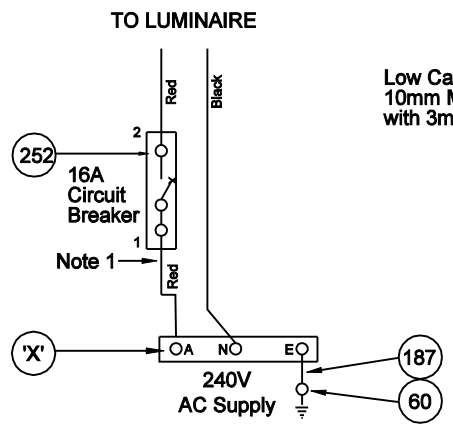
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B	10.12.12	4927-A4-12.3			Approved Energex	Date				
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			L. Burton / T. Borg	14/10/10						



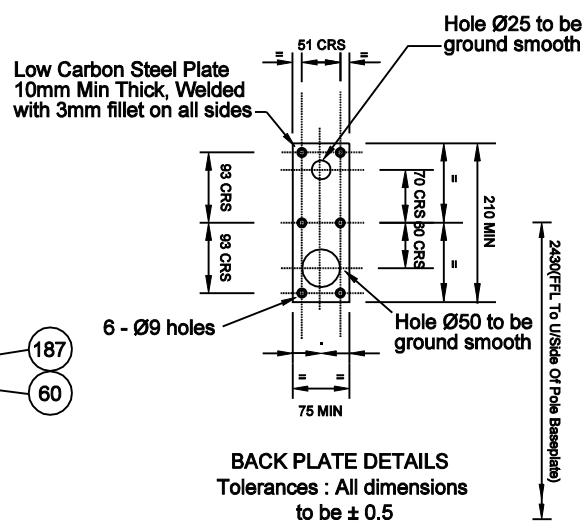
FRONT VIEW
STREETLIGHT SUPPLY BOX
For External Use On
Joint Use Supply Poles



PREFERRED LAYOUT OF EQUIPMENT



WIRING DIAGRAM
High Pressure Sodium
& Mercury Vapour



BACK PLATE DETAILS
Tolerances : All dimensions
to be ± 0.5

MANUFACTURE :
RATING :
TOLERANCE :
MATERIAL :
FABRICATION :
PROTECTIVE COAT :
MARKING :
STOCK CODE :

In accordance with drawing unless otherwise specified.
Box to suit maximum size of control gear configuration (i.e. largest)
±2.0mm unless otherwise specified
Box - Pressed or Cast Aluminium
Gear Box - Aluminium or Steel (Flat Sheet)
(a) Standard production box preferred.
(b) All sharp edges and burrs to be removed.
(c) Lid to be hinged on L/H Side when viewed from front.
Steel Gear Tray - Electro Galvanised or similar
S/L Supply & Month/Year of Manufacture eg 9/96
16432

PART	DESCRIPTION	S.C.	QTY
252	CB SP 240V 15/16A 6kA	15885	1
213	Cast or Pressed Aluminium Box	-	1
187	6mm ² 7/1.01 PVC Cable G/Yellow	08345	AR
60	Terminal Lug, W/- M6 Hole	06248	1
250	DIM Mounting Rail, TH35 7.5	11123	AR
'X'	3 Way T/B Din Rail Mounted For Up To 25mm ² Cable C/W Bridge Between Earth & Neutral	-	8

NOTES:

1. Minimum size of wiring to be 1.5mm single core multistranded single insulated with min temperature rating of 105°C.
2. Overall dimensions of box are nominal only. Standard production units are preferred. Equipment tray to be securely fixed to box.
3. Terminal blocks thus shown must be colour coded or labelled.
4. Mounting strap or lug is optional as mounting is effected via 6 x Ø9 holes.
5. Where a U/G pit is adjacent to a joint use pole an alternative connection using a junction box can be used. Refer Construction Manual Section 4.

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		REFERENCE DRAWING ERGON NIL			Approved Energex R. English dd/mm/yy						
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