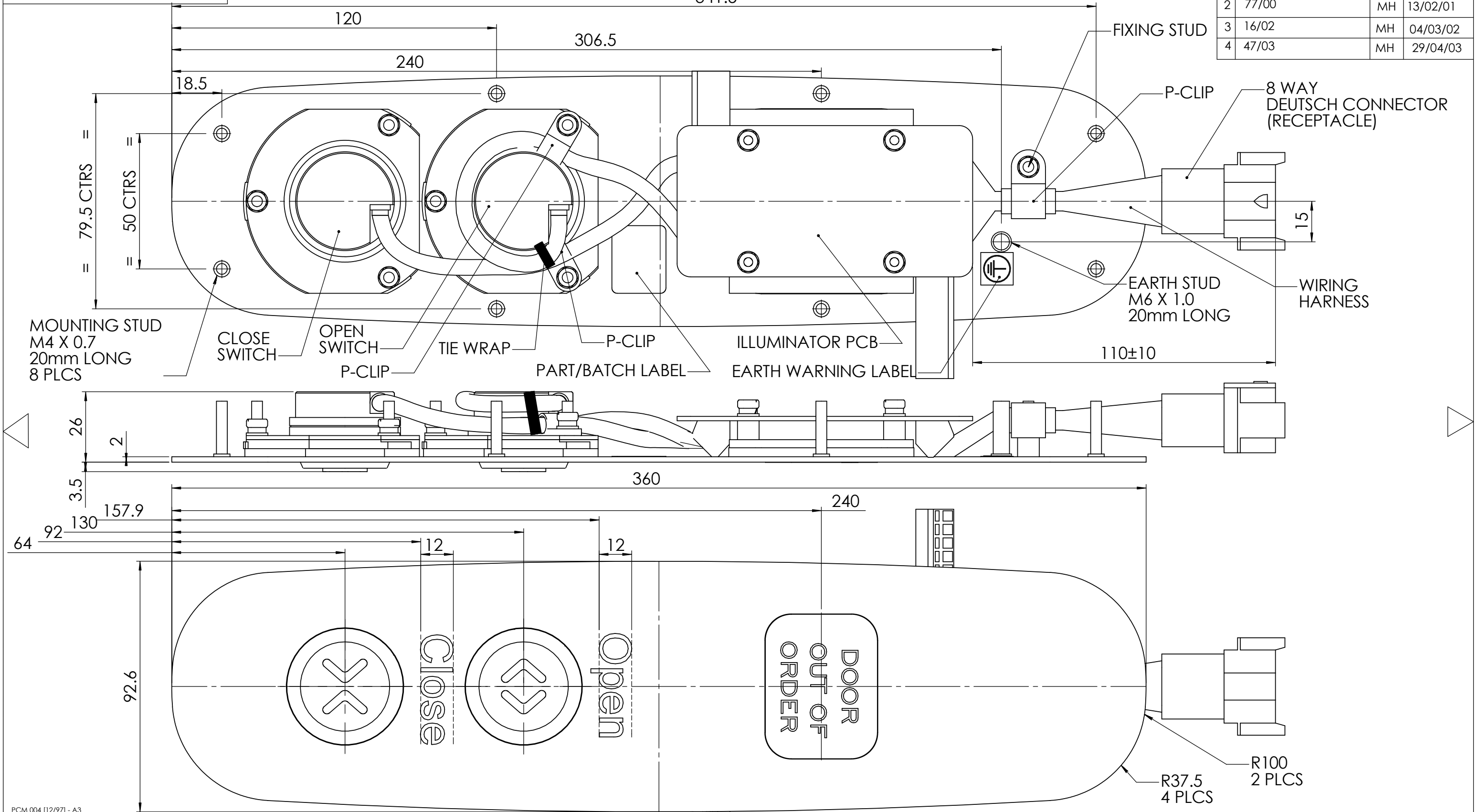


DRAWING NO
SPL5199

ISS
4

ISS	MODIFICATION	DRN	DATE
1	ORIGINAL ISSUE	MH	07/09/00
2	77/00	MH	13/02/01
3	16/02	MH	04/03/02
4	47/03	MH	29/04/03



PCM 004 [12/97] - A3

<p>THIS DRAWING AND ANY COPYRIGHT THEREIN BELONGS TO MARL INTERNATIONAL LIMITED AND MUST NOT BE COPIED OR DISCLOSED TO A THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF MARL INTERNATIONAL LIMITED</p>	<p>TOLERANCE/SCALE UOS</p>	<p>ALL DIMENSIONS IN MM ALL DIMENSIONS</p>	<p>DRN: MH</p>		<p>MARL INTERNATIONAL LTD ULVERSTON CUMBRIA LA12 7RY TEL: 01229 582430 FAX: 01229 585155 EMAIL: design@marl.co.uk</p>	<p>TITLE ELECTROSTAR INTERNAL DOOR PANEL 086-501-57-54</p>	<p>IF IN DOUBT ASK. DO NOT SCALE</p>	
	<p>LINEAR ±1 ANGULAR N/A ORIG. SCALE 1:5</p>		<p>DATE: 30/05/00</p>				<p>CHK1: CHK2:</p>	<p>Model Name ASS5198</p>

DRAWING NO
SPL5199

ISS
4

DESCRIPTION:

A DOOR CONTROL PANEL USING LED TECHNOLOGY FOR ILLUMINATION. THE LEGEND WILL BE ILLUMINATED USING A CUSTOM PCB WITH HIGH INTENSITY LEDS POSITIONED BEHIND AN OPTICAL DIFFUSER. SEALING OF THE LEGEND PLATE TO THE PANEL IS ACHIEVED BY USE OF A GASKET AT THE JOINT INTERFACE. THE CIRCUIT HAS BEEN DESIGNED ACCORDING TO RIA 12 AND 13 STANDARDS. THE PANEL IS MANUFACTURED FROM STAINLESS STEEL AND INCORPORATES TWO FLUSH MOUNTED SWITCHES. THE PANEL IS TO BE FIXED TO THE BODY USING 20MM LONG M4 STUDS. MAXIMUM TORQUE TO BE APPLIED TO MOUNTING STUDS = 2.7Nm. CONNECTIONS TO THE VEHICLE WIRING WILL BE MADE USING AN EIGHT WAY DEUTSCH RECEPTACLE WITH NICKEL PLATED CONTACTS. EARTHING IS MADE BY A SEPERATE 6MM EARTH STUD. MAXIMUM TORQUE TO BE APPLIED TO EARTH STUD = 4.0Nm. MINIMUM DEPTH REQUIRED BEHIND PANEL = 30mm

THIS PRODUCT HAS BEEN DESIGNED TO MEET OR EXCEED THE REQUIREMENTS OF ENGINEERING SPECIFICATION 3EER300003-0294, WITH THE FOLLOWING EXCEPTIONS,

1. EARTH STUD IS AS DETAILED ON SHEET 1 OF 2.
2. PCB HAS BEEN DESIGNED IN ACCORDANCE WITH BSEN 50155.
3. EARTH LABEL COMPLIES WITH BS 6217, 417-I.E.C-5019.
4. CABLE SHALL BE HUBER & SUHNER 4 GKW/AX 1mm² TRACTION CABLE.
5. P-CLIPS PRECISELY MATCHED TO CABLE SIZE SHALL BE USED.

MATERIALS SPECIFICATION:

PANEL: 2mm 304 GRADE STAINLESS STEEL, FRONT SURFACE BRUSHED 240 GRIT.

TEXT DETAILS: 12mm HIGH HELVETICA, JUSTIFIED CENTRALLY ABOUT CENTRELINE 0.25 MAX DEPTH, FILLED BLACK.

SWITCHES: EAO SERIES 56 OPERATING AT 96VDC.

LEGEND GASKET: NITRILE O-RING.

LEGEND PLATE: CLEAR POLYCARBONATE.

DIFFUSER: 3mm THICK OPAL 050.

CONNECTORS, DEUTSCH DT SERIES:

HOUSING: THERMOPLASTIC.

SEALS: SILICONE ELASTOMER.

SECONDARY LOCK: THERMOPLASTIC.

CONTACTS: COPPER ALLOY, NICKEL PLATED.

ORDER CODE: 086-501-57-54

8 WAY CONNECTOR WIRING DETAILS

DEUTSCH CON	WAGO CON	DESCRIPTION
1	1	OPEN/CLOSE SWITCH +VE
2	2	OPEN LED +VE
3	3	OPEN/CLOSE LED/ILLUMINATOR -VE
4	4	OPEN SWITCH -VE
5	5	CLOSE SWITCH -VE
6	6	CLOSE LED +VE
7	7	ILLUMINATOR +VE
8	-	NO CONNECTION

DOOR SWITCH TO PCB WIRING DETAILS

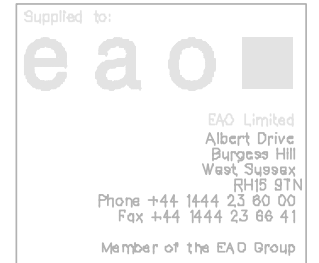
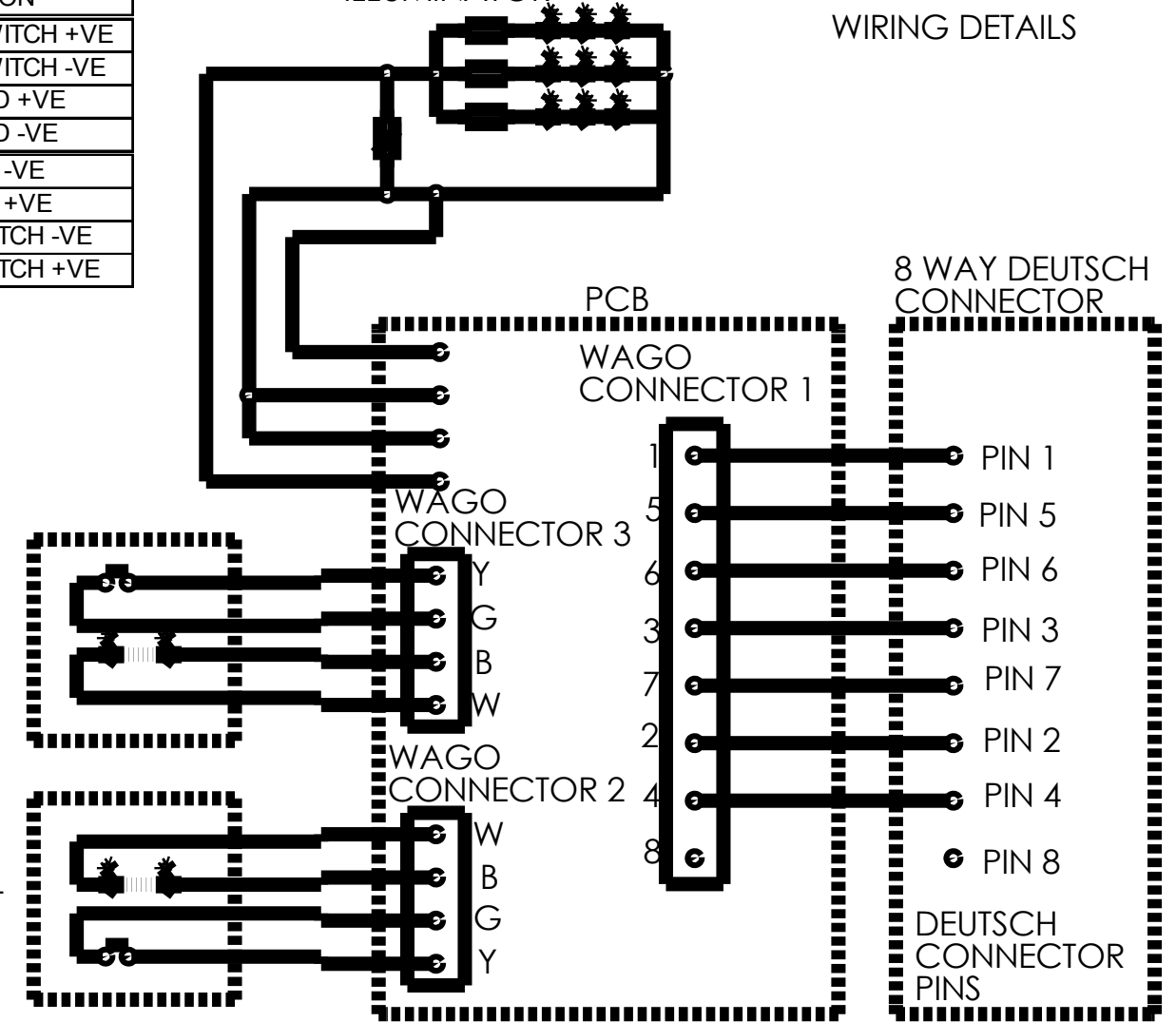
CON	WIRE COLOUR	DESCRIPTION
Y	YELLOW	CLOSE SWITCH +VE
G	GREEN	CLOSE SWITCH -VE
B	BROWN	CLOSE LED +VE
W	WHITE	CLOSE LED -VE
W	WHITE	OPEN LED -VE
B	BROWN	OPEN LED +VE
G	GREEN	OPEN SWITCH -VE
Y	YELLOW	OPEN SWITCH +VE

CLOSE SWITCH CONNECTOR 3
56-6801-4492A

OPEN SWITCH CONNECTOR 2
56-6801-4491A

DOOR OUT OF ORDER ILLUMINATOR

WIRING DETAILS



PCM 004 [12/97] - A3

THIS DRAWING AND ANY COPYRIGHT THEREIN BELONGS TO MARL INTERNATIONAL LIMITED AND MUST NOT BE COPIED OR DISCLOSED TO A THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF MARL INTERNATIONAL LIMITED	TOLERANCE/SCALE UOS		<p>ALL DIMENSIONS IN MM ALL DIMENSIONS</p>	DRN: MH
	LINEAR	±1		DATE: 30/05/00
	ANGULAR	N/A		CHK1:
ORIG. SCALE	1:5	CHK2:		



MARL INTERNATIONAL LTD
ULVERSTON CUMBRIA LA12 7RY
TEL: 01229 582430
FAX: 01229 585155
EMAIL: design@marl.co.uk

TITLE
**ELECTROSTAR
INTERNAL DOOR PANEL
086-501-57-54**

IF IN DOUBT ASK. DO NOT SCALE			
Model Name	ASS5198	DRAWING NO	SPL5199
SHEET	2 OF 2		
		ISS	4