

Socket Outlet Assemblies, LUL Approved

LV9, LV9R, LV932 and LV9R32 Socket Outlet Assemblies, LUL Approved Product Register (APR) No. 1935

A range of 16A and 32A 110V surface and flush mounting socket outlets approved for London Underground (LUL) installations, including Section 12 locations. LV9 (16A) and LV932 (32A) sockets incorporate DP MCBs (16A / 32A), enabling them to be fed from higher current MCBs at the source. LV9R 16A sockets incorporate DP RCBOs, which provide the addition of RCD protection to ensure compliance with disconnection times on circuits with a high earth fault loop impedance (Z_s). LV9R32 32A sockets are fitted with 40A DP RCCBs (no overcurrent protection) and should be fed from a DP MCB with a rating not exceeding 32A. Please see data sheet DDS301 for 16A and 32A SMB sockets without MCB or RCD protection and data sheets TRDS030 and TRDS034 for LUL approved step down transformers to feed LV9 and SMB series socket assemblies.

General

LV9, LV9R, LV932 and LV9R32 sockets are supplied in surface or flush enclosures and do not incorporate any external combustible materials, including the socket outlet, which is metal clad. Any insulated materials are located internally, with access via covers incorporating low fire hazard gasket. As standard, the layout of LV9 series sockets is "horizontal"; versions with a "vertical" layout are also available i.e. where the MCB or RCBO is positioned above the socket.

Enclosures

Back boxes are fabricated from mild steel sheet and finished in a white, LUL approved, electro-statically applied, polyester powder paint. The front plate is removable and is available in a white painted finish or brushed stainless steel. The front plate and MCB dolly cover are both gasketed and enclosures provide protection to IP55. However, the overall rating of the assembly is IP44, due to the ingress rating of the 16A metal clad socket. All external fixings are tamper proof.

Standard Equipment

LV9 and LV932 socket assemblies are fitted with Schneider 16A or 32A DP Type "C" MCBs, which feed 16A or 32A 3P 110V metal clad angled sockets to BS EN 60309-2. Internal wiring is via LUL approved LSF cable. The MCB is protected by a hinged metal cover with a quick release fastener. The supply into an LV9 or LV932 assembly terminates into the MCB, which has terminals to accommodate a single 25mm² CSA cable or 2 no. 10mm² CSA cables.

RCD Options

To meet disconnection times on circuits with a high earth fault loop impedance (Z_s), LV9R 16A sockets incorporate DP 30mA RCBO protection and LV9R32 32A sockets incorporate 30mA RCCB protection. Both devices are designed to operate at 110V and the RCBO is suitable for use on an RLV supply because it has overcurrent protection in both poles (the LV9R32 does not incorporate over current protection). The RCCB / RCBO cable termination capacity is the same as that of a 16A or 32A MCB.

Outdoor Option

For non-Section 12 locations (depots, etc.) LV9, LV9R, LV932 and LV9R32 sockets can be uprated to IP55 by the incorporation of a moulded, watertight socket.

See over the page for Item numbers, dimensions, etc., of standard assemblies.



LV9 Socket, Flush mounting,
Brushed Stainless Steel finish



LV9R Socket with
MCB Dolly Cover Open



LV9R Socket, Flush mounting,
Painted Finish



LV9 Socket, surface mounting,
Painted Finish, side view

Part Numbers and Dimensions

LV9 / LV9R (16A 110V) and LV932 / LV9R32 (32A 110V) series with DP MCB, RCBO or RCCB

Part Numbers for Complete Assemblies - Surface Mounting

Part No.	Type	Protection	Enclosure/Front Plate	Dimensions (WxDxH)
S120203	LV9/S//LUL	MCB	Surface Mounting / White Paint	215 x 105 x 140
S120204	LV9/S/BSS/LUL	MCB	Surface Mounting / Brushed S/Steel	215 x 105 x 140
S120093	LV9R/S//LUL	RCBO	Surface Mounting / White Paint	215 x 105 x 140
S120094	LV9R/S/BSS/LUL	RCBO	Surface Mounting / Brushed S/Steel	215 x 105 x 140
S200806	LV932/S//LUL	MCB	Surface Mounting / White Paint	215 x 120 x 140
S200807	LV932/S/BSS/LUL	MCB	Surface Mounting / Brushed S/Steel	215 x 120 x 140
S120321	LV9R32/RCCB/S//LUL	RCCB	Surface Mounting / White Paint	215 x 120 x 140
S120322	LV9R32/RCCB/S/BSS/LUL	RCCB	Surface Mounting / Brushed S/Steel	215 x 120 x 140

Part Numbers for Complete Assemblies - Flush Mounting

Part No.	Type	Protection	Enclosure/Front Plate	Dimensions Back Box	Dimensions Front Plate
S120206	LV9/F//LUL	MCB	Flush Mounting / White Paint	215 x 67 x 140	245 x 170
S120207	LV9/F/BSS/LUL	MCB	Flush Mounting / Brushed S/Steel	215 x 67 x 140	245 x 170
S120103	LV9R/F//LUL	RCBO	Flush Mounting / White Paint	215 x 67 x 140	245 x 170
S120104	LV9R/F/BSS/LUL	RCBO	Flush Mounting / Brushed S/Steel	215 x 67 x 140	245 x 170
S200808	LV932/F//LUL	MCB	Flush Mounting / White Paint	215 x 67 x 140	245 x 170
S200809	LV932/F/BSS/LUL	MCB	Flush Mounting / Brushed S/Steel	215 x 67 x 140	245 x 170
S120323	LV9R32/RCCB/F//LUL	RCCB	Flush Mounting / White Paint	215 x 67 x 140	245 x 170
S120324	LV9R32/RCCB/F/BSS/LUL	RCCB	Flush Mounting / Brushed S/Steel	215 x 67 x 140	245 x 170

Part Numbers for Back Boxes and Front Plate Assemblies Supplied as Separate Items - Surface

Type	Protection	Enclosure/Front Plate	Back Box	Front Plate Assembly includes MCB, socket
LV9/S//LUL	MCB	Surface Mounting / White Paint	S020372	S120114
LV9/S/BSS/LUL	MCB	Surface Mounting / Brushed S/Steel	S020372	S120115
LV9R/S//LUL	RCBO	Surface Mounting / White Paint	S020372	S120140
LV9R/S/BSS/LUL	RCBO	Surface Mounting / Brushed S/Steel	S020372	S120142
LV932/S//LUL	MCB	Surface Mounting / White Paint	S020372	S200981
LV932/S/BSS/LUL	MCB	Surface Mounting / Brushed S/Steel	S020372	S201058
LV9R32/RCCB/S//LUL	RCCB	Surface Mounting / White Paint	S020372	S120325
LV9R32/RCCB/S/BSS/LUL	RCCB	Surface Mounting / Brushed S/Steel	S020372	S120326

Part Numbers for Back Boxes and Front Plate Assemblies Supplied as Separate Items - Flush

Type	Protection	Enclosure/Front Plate	Back Box	Front Plate Assembly includes MCB, socket
LV9/F//LUL	MCB	Flush Mounting / White Paint	S020372	S120138
LV9/F/BSS/LUL	MCB	Flush Mounting / Brushed S/Steel	S020372	S120139
LV9R/F//LUL	RCBO	Flush Mounting / White Paint	S020372	S120143
LV9R/F/BSS/LUL	RCBO	Flush Mounting / Brushed S/Steel	S020372	S120144
LV932/F//LUL	MCB	Flush Mounting / White Paint	S020372	S201059
LV932/F/BSS/LUL	MCB	Flush Mounting / Brushed S/Steel	S020372	S201060
LV9R32/RCCB/F//LUL	RCCB	Flush Mounting / White Paint	S020372	S120327
LV9R32/RCCB/F/BSS/LUL	RCCB	Flush Mounting / Brushed S/Steel	S020372	S120328

Please refer to our Customer Service Centres for details of IP55 versions for non-Section 12 locations.