

UPR Series 16 Amps Plugs and Switched Sockets

Increased Safety

Zone 1 and 2 - 21 and 22

Gas (G) and Dust (D)

Applications

- Plugs and receptacles are used with portable or stationery electrical equipment such as:
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generators
 - Air conditioning equipment
 - Compressors
 - Pumps
 - For use in corrosive atmospheres and installations in Zone 1 and 2 and 21 and 22 of the oil and gas industry; such as:
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Loading docks
 - Onshore and offshore drilling platforms

Features



- Plug and socket system is designed with a mechanical interlock to insure disengagement cannot occur while energized.
 - Large ON/OFF actuator on the receptacle gives clear, visible indication of the receptacle status for maximum hazardous location protection.
 - LV receptacle can be locked in 0 (Off) and 1 (On) positions.
 - Different voltages are color coded for easy identification.
 - The receptacles are keyed to accept UPR plugs of the proper voltage.
 - Receptacle explosion proof switch.
 - UPR plugs can be used in non-hazardous IEC 60309-2 sockets.
 - Operating temperature of -20 °C to +55 °C

Standard Materials

- Wall Socket: Polyamide
 - Plug: Polyamide

Certifications and Compliances

◆ATEX/IECEX Certification

- Certification Type UPR**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE:  II 2 G
 - Type of Protection: Ex db eb IIB
 - Temperature class: T6 for Ta ≤ +40 °C and T5 for +55 °C
 - Dust: Zones 21 and 22
 - Conforming to ATEX 94/9/CE:  II 2 D
 - Type of Protection: Ex tb IIIB
 - Surface Temperature: T79 °C (Ta +40 °C); T94 °C (Ta +55 °C)
 - Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09
 - CE Declaration of Conformity: 50311
 - ATEX Certificate: LCIE 15 ATEX 3054X
 - IECEX Certificate: IECEX LCIE 15.0044X



Technical Data

Breaking Capacity		
AC1	16 Amp	690 Vac
	8 Amp	500 Vac
AC3	4 Amp	690 Vac
	16 Amp	690 Vac
AC15	16 Amp	415 Vac
DC1	10 Amp	24 Vdc
	6 Amp	50 vdc

Short Circuit Withstand (ICC) : 10kA

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Wall Mounting Socket (LV)

- Two M25 threaded entries on the bottom or top upon request.
- Supplied with one M25 cable gland – Ø 8 to Ø 18.5 mm and one M25 blanking plug.
- Terminal capacity 2 x 2.5 to 4 mm². Can be through-wired up to 4 mm².
- Fitted with two linked earth terminals.



Plug (LV)

- Integrated cable clamp – Ø 9.2 to Ø 17 mm.
- Terminal capacity 2.5 to 4 mm².



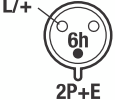

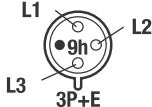

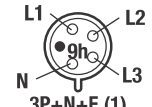

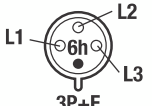

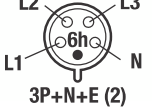
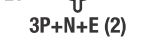
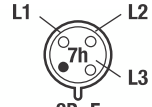



LV: Low Voltage

Yellow	Blue	Red	Black
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac 600/690 Vac

UPR Series 16 Amps Plugs and Switched Sockets

Increased Safety

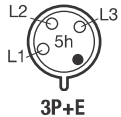
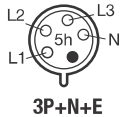
Zone 1 and 2 - 21 and 22
Gas (G) and Dust (D)

Description	Pin Configuration	Weight kg	Volume dm ³	Color	Catalog Number
Low Voltage: LV					
100/130 Vac 50/60 Hz - Yellow					
Wall Socket		1.29	11.3	Yellow	UPR316RY4
Plug		0.31	2.4	Yellow	UPR316PY4
200/250 Vac 50/60 Hz - Blue					
Wall Socket		1.29	11.3	Blue	UPR316RB6
Plug		0.31	2.4	Blue	UPR316PB6
Wall Socket		1.39	11.3	Blue	UPR416RB9
Plug		0.38	2.4	Blue	UPR416PB9
Wall Socket		1.43	11.3	Blue	UPR516RB9
Plug		0.41	2.4	Blue	UPR516PB9
<i>(1) 120/208 V - 144/250 Vac 50/60 Hz</i>					
380/415 Vac 50/60 Hz - Red					
Wall Socket		1.39	11.3	Red	UPR416RR6
Plug		0.38	2.4	Red	UPR416PR6
Wall Socket		1.43	11.3	Red	UPR516RR6
Plug		0.41	2.4	Red	UPR516PR6
<i>(2) 200/346 V - 240/415 Vac 50/60 Hz</i>					
480/500 Vac 50/60 Hz - Black					
Wall Socket		1.39	11.3	Black	UPR416RN7
Plug		0.38	2.4	Black	UPR416PN7
Wall Socket		1.43	11.3	Black	UPR516RN7
Plug		0.41	2.4	Black	UPR516PN7
<i>(3) 277/480-288/500 Vac 50/60Hz</i>					

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Zone 1 and 2 - 21 and 22
Gas (G) and Dust (D)

Description	Pin Configuration	Weight kg	Volume dm ³	Color	Catalog Number
Low Voltage: LV					
600/690 Vac 50/60 Hz - Black					
Wall Socket		1.39	11.3	Black	UPR416RN5
Plug		0.38	2.4	Black	UPR416PN5
Wall Socket		1.43	11.3	Black	UPR516RN5
Plug		0.41	2.4	Black	UPR516PN5

UPR Series 16 Amps Plugs and Switched Sockets

Increased Safety

Zone 1 and 2 - 21 and 22
Gas (G) and Dust (D)

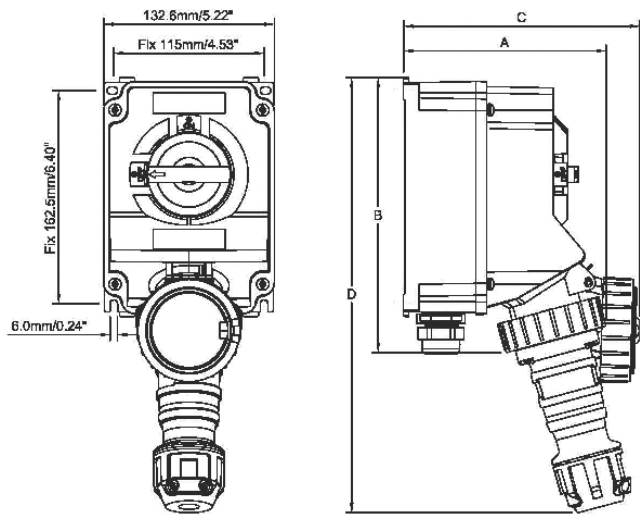
Plugs and Receptacles

INCREASED SAFETY EX E

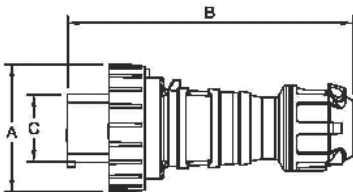
Dimensions

16A LV – 2P+E – 3P+E – 3P+N+E Versions

Wall Mounting Sockets



Plugs



	Dimensions in Millimeters			
	A	B	C	D
2 P + E	157	211	183.5	335
3 P + E	161	215	193	335
3 P + N + E	163	215	193	335

	Dimensions in Millimeters		
	A	B	C
2 P + E	81	183	44
3 P + E	89	183	49
3 P + N + E	93.5	183	56

UPR Series 32 Amps Plugs and Switched Sockets

Increased Safety

Zone 1 and 2 - 21 and 22
Gas (G) and Dust (D)

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 - Conveyors
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Features

- Plug and socket system is designed with a mechanical interlock to insure disengagement cannot occur while energized.
- Large ON/OFF actuator on the receptacle gives clear, visible indication of the receptacle status for maximum hazardous location protection.
- LV receptacle can be locked in 0 (Off) and 1 (On) positions.
- Different voltages are color coded for easy identification.
- The receptacles are keyed to accept UPR plugs of the proper voltage.
- Receptacle explosion proof switch.
- UPR plugs can be used in non-hazardous IEC 60309-2 sockets.
- Operating temperature of -20 °C to +55 °C.

Standard Materials

- Wall Socket: Polyamide
- Plug: Polyamide

Certifications and Compliances

◆ ATEX/IECEx Certification

- Certification Type UPR**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex db eb IIB
 - Temperature class: T6 for $T_a \leq +40$ °C and T5 for +55 °C
 - Dust: Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tb IIB
 - Surface Temperature: T79 °C ($T_a +40$ °C); T94 °C ($T_a +55$ °C)
 - Ambient Temperature: -20 °C $\leq T_a \leq +55$ °C
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09
 - CE Declaration of Conformity: 50311
 - ATEX Certificate: LCIE 15 ATEX 3054X
 - IECEx Certificate: IECEx LCIE 15.0044X



Technical Data

Breaking Capacity		
AC3	32 Amp	690 Vac
AC22	32 Amp	690 Vac

Short Circuit Withstand (ICC) : 10kA

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Wall Mounting Socket

- Two M32 threaded entries on the bottom or top upon request.
- Supplied with one M32 cable gland – Ø 10 to Ø 25 mm and two M32 blanking plugs.
- Terminal capacity 2 x 6 to 10 mm². Can be through-wired up to 6mm².
- Fitted with two linked earth terminals.



Plug

- One integrated cable clamp – Ø 14.1 to Ø 29.1 mm for 3P+N+E versions.
- Terminal capacity 6 to 10 mm².


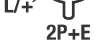
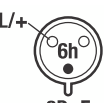

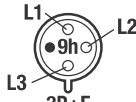





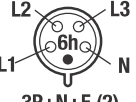



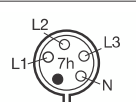

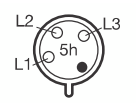

LV - Low Voltage

Yellow	Blue	Red	Black
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac
			600/690 Vac

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Zone 1 and 2 - 21 and 22
Gas (G) and Dust (D)

Description	Pin Configuration	Weight kg	Volume dm ³	Color	Catalog Number
100/130 Vac 50/60 Hz - Yellow					
Wall Socket		1.71	11.3	Yellow	UPR332RY4
Plug		0.46	2.4	Yellow	UPR332PY4
200/250 Vac 50/60 Hz - Blue					
Wall Socket		1.71	11.3	Blue	UPR332RB6
Plug		0.46	2.4	Blue	UPR332PB6
Wall Socket		1.85	11.3	Blue	UPR432RB9
Plug		0.49	2.4	Blue	UPR432PB9
Wall Socket		1.91	11.3	Blue	UPR532RB9
Plug		0.54	2.4	Blue	UPR532PB9
(1) 120/208 V - 144/250 Vac 50/60 Hz					
380/415 Vac 50/60 Hz - Red					
Wall Socket		1.85	11.3	Red	UPR432RR6
Plug		0.49	2.4	Red	UPR432PR6
Wall Socket		1.91	11.3	Red	UPR532RR6
Plug		0.54	2.4	Red	UPR532PR6
(2) 200/346 V - 240/415 Vac 50/60 Hz					
480/500 Vac 50/60 Hz - Black					
Wall Socket		1.85	11.3	Black	UPR432RN7
Plug		0.49	2.1	Black	UPR432PN7
Wall Socket		1.91	11.3	Black	UPR532RN7
Plug		0.54	2.4	Black	UPR532PN7
600/690 Vac 50/60 Hz -Black					
Wall Socket		1.85	11.3	Black	UPR432RN5
Plug		0.49	2.4	Black	UPR432PN5

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Plugs and Receptacles

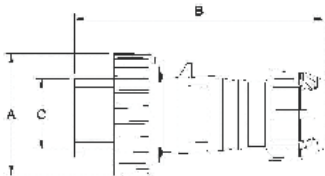
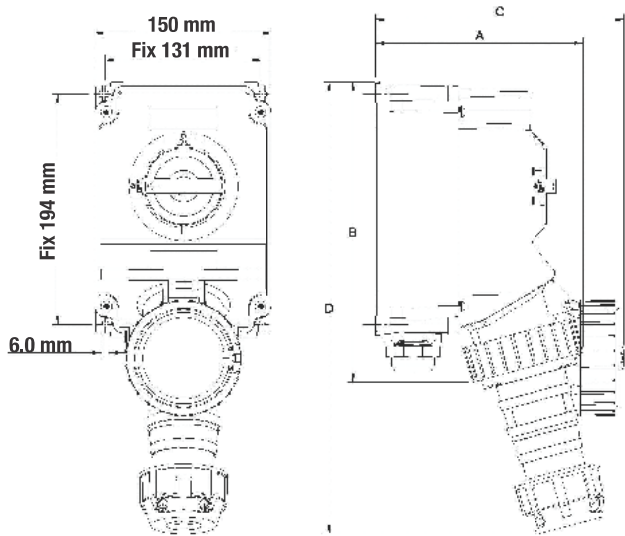
INCREASED SAFETY EX E

Dimensions

32A — 2P+E — 3P+E —3P+N+E Versions

Wall Mounting Sockets

Plugs



Dimensions in Millimeters				
	A	B	C	D
2 P + E	175	250	210	380
3 P + E	175	250	210	380
3 P + N + E	177	250	210	380

Dimensions in Millimeters			
	A	B	C
2 P + E	98	200	57
3 P + E	98	200	57
3 P + N + E	102	200	63