

AC Inlet System

WEATHERPROOF CONNECTION WITH DRIVE-AWAY PROTECTION

Replaced by new IP65 variant: AC Inlet 2. See <http://www.antares.co.uk/ac-inlet-system.html>



Mains connections to a vehicle or remote/portable installation needs to be safe and this outlet offers safety, reliability and long life. It will prevent all drive-aways when the plug is inserted - and is the only system to prevent drive-aways when the plug is in, but there is no power present. (eg power cut, RCD trip activated, plug at other end of cable removed from wall socket).

Antares have created this AC Inlet system with:

- IP66 weatherproof connection when flap is closed (ie not in use)
- a "plug connected" interlock to prevent accidental drive-aways
- Optional AC present/ battery charger indicator lamps at the point of connection.

The system can be used as a stand alone unit for any AC connection to the vehicle or specifically for use with the Antares UPC universal power charger.

Correctly installed, the AC system is CEN1789:2000 compliant.

Plug Detection

The system prevents the vehicle being driven away whilst the inlet plug is connected, even if the mains lead is not live.

The AC inlet assembly detects that the plug is open by means of an embedded magnetic switch. This is used to provide a signal input to interlock the ignition circuit and provide a warning indication if required.

Indicators

Versions of the unit have been used in conjunction with the universal power charger family UPC or IPC2. The inlet has indicators to show that:

- Mains voltage is present
- Charging in progress
- System fault

Extension leads

The supply inlet cable is fitted with a compact Neutrik plug, providing an "insert and twist motion" to engage with the inlet.

The remote connection is supplied with an RCD plug in UK domestic format, or alternatively a BS4343 blue 230V industrial plug or a BS4343 yellow 110V industrial plug. If the BS4343 plug is used, an RCD must be fitted to the building supply system and must be suitably fused.

Installation

The unit is designed to be sited externally on a vehicle panel. When installed correctly, the IP66 rating gives protection against road spray and contaminants from the external weather.

The installation kit is complete and includes templates, fixings, labels and gasket. Mounting the unit simply requires cutting a 60mm circular aperture in the bodywork and siting four captive nuts. The unit is then bolted into place.

Antares TDC
Knaves Beech Business Centre
Davies Way
Loudwater
HIGH WYCOMBE
HP10 9QR UK

www.antares.co.uk
email: info@antares.co.uk
tel: +44 (0)1628 535440
fax: +44 (0)1628 535441

ANTARES
engineering with answers

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Location

The location should be chosen to minimise external impact damage and with regard to chassis structural strength. Ideally it should be mounted high enough so that it cannot be used as a makeshift step! The unit can also be mounted internally, if desired. The electrical connections are all plug to plug.

Peace of mind

The Antares AC inlet systems are specified for the needs of the professional installer. The units come with a comprehensive two year parts and labour warranty...backed by the leading UK company in this sector just specify, fit and forget!



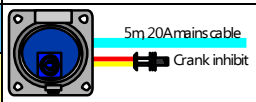
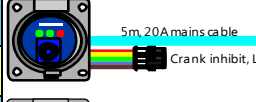
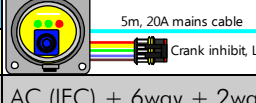
Neutrik Connector



AMP Superseal Connector



Complete inlet cable (70212 -10)

AC INLET PART NUMBERS			
Description	Part No	Rating	Examples: (blue = 230VAC, yellow = 110VAC)
AC Inlet only (No LEDs)	70591-01	16A/230V/BASIC	
	70594-01	16A/110V/BASIC	
AC Inlet (mains present LED)	70560.01	16A/230V/NEON	
	N/A	16A/110V/NEON	
AC Inlet (UPC Charger)	70592-01	16A/230V/3 LEDS	
	70593-01	16A/110V/3 LEDS	
AC Inlet (Ambulance) ONLY FOR USE ON EXISTING INSTALLA- TIONS	90361	PMS /ASM2—Mk1 Sprinter (eg 416) 110/230V	AC (IEC) + 6way + 2way + 2way (1n/c)
	90363-01	ASM3/NCV3 Sprinter (eg515) 230V only	AC (5m) + 5way
	70308	Vehicles Without Antares PMS 230V	AC (IEC) + 2way
AC connections	Neutrik PowerCon		
	5m un-terminated cable pre-fitted to back of unit		
DC connections	Superseal connector for crank inhibit, LED connections		
Temp range	Operating -10°C to +55°C		
Environmental Protection	IP30 whilst cover opened and connected (charging/stationary) and IP66 when closed (whilst driving)		
Dims/Weight	96mm x 96mm x 33mm / 270g (housing only)		
TO CONNECT TO THE VEHICLE: CONNECTION LEAD SPECIFICATIONS			
STANDARD ARCTIC CABLE 10m power input lead, or XX = cable length in metres.	70212.XX*	INLET CABLE STD NEUTRIK/RCD BS1360/13A	
	70324.XX*	INLET CABLE STD NEUTRIK/BS4343/230V/16A	
	70325.XX*	INLET CABLE STD NEUTRIK/BS4343/110V/16A	
Standard Arctic cable specifications	BS6360 3 core 2.5mm ² copper conductors BS6746 low temperature PVC insulation Blue 230V or Yellow 110V outer sheath Suitable for outdoor applications at sub zero temperatures -20deg to +70degC		
17th EDITION BS7671 cable 10m power input lead, or XX = cable length in metres.	70155.XX*	INLET CABLE HARSH NEUTRIK/RCD BS1360/13A	
	70327.XX*	INLET CABLE HARSH NEUTRIK/BS4343/230V/16A	
	70328.XX*	INLET CABLE HARSH NEUTRIK/110V/16A	
Harsh environment cable specifications	3 core 2.5mm ² copper conductors. Colour black. H07 RN-F, Compliant to BS7671 17th edition wiring regulations.		
* our standard cable length is 10m. For different lengths change XX to the value you require when ordering, eg for a 12m 17th Edition BS7671 cable order 1 x 70155.12			