DIN RAIL CONTROLLER FOR AC CHARGER



Overview Of The Controller

The controller is a DIN rail mounted control module for IEC 61851 compatible EV charge points. Keyfeatures include RCM and DLB, helping charge point manufacturers and installers meet regulations in a cost-effective way and protect against electric shock in the unlikely event of an earth faultproblem.

Features

DEVICE VERSIONS	1.Basic:E32T21-B; 2.DLB:E32T21-D; 3.RCM	:E32T21-R; 4.DLB&RCM:E32T21-D&R
SUPPLIED PARTS	E32T21 module,Current Transformer(CT), RCM; (when selected;optional part CT/RCM/CT+RCM)	
AREAS OF APPLICATION&USE	 Controlling the charging procedure of electric vehicles in accordance with EC61851 mode 3 For communication with the electric vehicle according to IEC62196-2 or SAE J1172 	
MOUNTING	Mounting onto standard rail according to DIN EN 60715	
CONNECTION ELEMENTS	Mains input (207-257V@50Hz AC) 1 Relay contacts (230V AC)for switching the load Solenoid or motor interlock drive for socket(Configuration dependant)	Current Transformer (DLB) and RCMU Vehicle interface/Signalling contacts External LED support
NTEGRATED LED	Displays the operating state of EVSE	
OPERAT NG TEMP	-25°C to 50°C	
CONFIGURABLE OPTIONS	Tethered or Socket outlets 16A or32A maximum operating currents depending on fitted system contactor	Solenoid or motor locking systems Interlock Feedback for status of motorised locks RCM and DLB support enable/disable

DIN Rail controller for AC charger



Terminal Assignment

TERMINAL	DESCRIPTION	
L(LINE)	This is where the AC'live'or'line'connection is made (207-257V@50Hz AC)*	
N(NEUTRAL)	This is where the AC'neutral'connection is made (207-257V@50HzAC)*	
VO(PE)	This is where the Protective Earth(ground)and Ov connections forthe RCM and IC resistor circuits are made*	
ML	Configuration is dependent. Provides a drive current to continuously energise the solenoidinterlock. Provides a drive current to change the motorised interlock state to locked (The signal is activated for 500ms and changes to pulsed 500ms intervals until the lock is engaged). Rating 12V300mA."	
MU	Configuration is dependent. Provides a return path for the solenoid interlock drive current ML. Provides a drive current to change the motorised interlock state tounlocked. Rating 12V300mA.	
FB	lock feedback	
P1	Relay 1 to coil on the EVSE(16A/32A)Contactor	
P2	Relay 2 to coil on the Auxiliary Contactor	
CS(Proximity Pilot)	Connection for the IEC61851/J1772 EVSE Connector(see Proximity)	
CP(Control Pilot)	Connection for the IEC61851/J1772 EVSE Connector(see Pilot Circuit)	
12V(5V)	12V(5V)Supply to provide power to the RCM	
FA	Connects to RCM 'Fault out'.The E32T21 reads if fault condition reported by the RCM	
TE	Connects to RCM 'Test'.The E32T21 uses this to check the operation of the RCM before each charging session commences.	
СТ	Connection for the other side of current transformer(DLB)	
BL	Blue led	
RD	Red led	
GN	Green led	

230V Power Supply Wiring Example

