

S 260 SERIES

BATTERY MASTER SWITCH



S 260 SERIES

ELECTRICAL CONTROL

300 A CONTINUOUS RATING ●

EMC COMPLIANT (REGULATION ECE R10) N° 24 10R-041095 ●



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TECHNICAL DATA

MAIN CHARACTERISTICS

Rated voltage	12 / 24 V
Polarity	+ CUT-OFF
Temperature range	- 40 to +85 °C
Housing material	PBT reinforced
Housing color	Black
Flame retardant	V0
Weight	850 g
Protection degree (ISO20653)	IP65 / IPX9K
Approved according to	EMC / ECE R10 regulation n° 24 10R-041095
Compliant with directive	REACH (2006/121/EC) - ELV (2000/53/EC)

POWER CIRCUIT

Continuous rating	300 A
Overload	1500 A (15 s)
Max DC voltage	16 / 30 V
Temporization (opening delay)	2.5 s
Terminals size	M10
Contact resistance	<1 mΩ
Terminals length	12 mm
Tightening torque	16 N.m±20%
Terminals material	Silver plated copper

CONTROL CIRCUIT

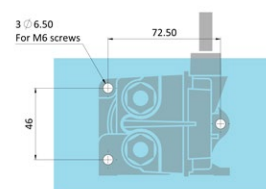
Voltage range	10.5 - 16 V / 18 - 30 V
Control signal	ON / OFF (1/0)
Switching current	17 A (200 ms) - 12 V / 10 A (200 ms) - 24 V
Idle current in OFF position	<1.5 mA
Connection	7-pin DIN type connector

TWO AUXILIARY CIRCUITS

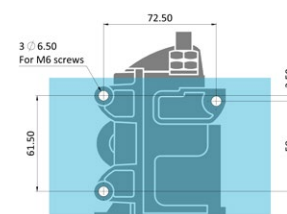
Circuit 1	D+ (alternator shutdown)
Continuous rating	300 mA
Connection	Pin 1
Circuit 2	Status lamp
Continuous rating	20 mA
Connection	Pin 2



MOUNTING INTERFACES



Screwing torque M6 : 10N.m±10%



PRODUCT SELECTION

P/N	VOLTAGE
202710	24 V
202712	12 V

On request: specific technical demand can be studied



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ACCESSORIES



250352
713 SERIES

Cabling kit
for battery switch



202556
S701 SERIES

Control switch
4-Pin ISO 15170 / DIN 72585
electrical connection



202326
713 SERIES

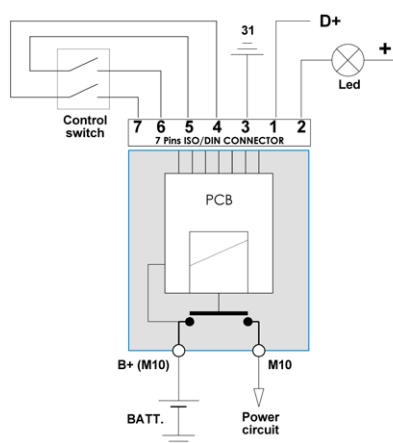
Cabling kit
for control switch



201010 - 202499
S900 SERIES

Red or black terminal
insulation cap

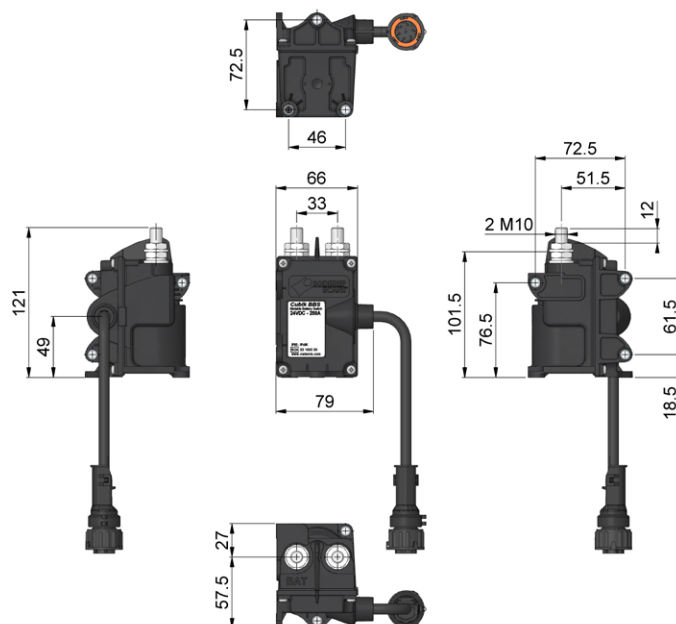
ELECTRICAL DIAGRAM

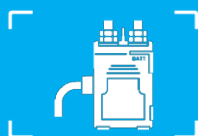


DIN CONNECTIONS

	B+	Connected directly to the battery + (M10 stud)
INPUT	Pin 3	31 : GND
	Pin 6	CC1 - control circuit in 1 Return line from control switch
	Pin 7	CC2 - control circuit in 2 Redundant return line from control switch
	Pin 1	D+ : to control alternator cut-off
OUTPUT	Pin 2	Status lamp: See «FUNCTIONING»
	Pin 4	CC1 - control circuit out 1 Supply to control switch
	Pin 5	CC2 - control circuit out 2 Redundant supply to control switch

DIMENSION DIAGRAM

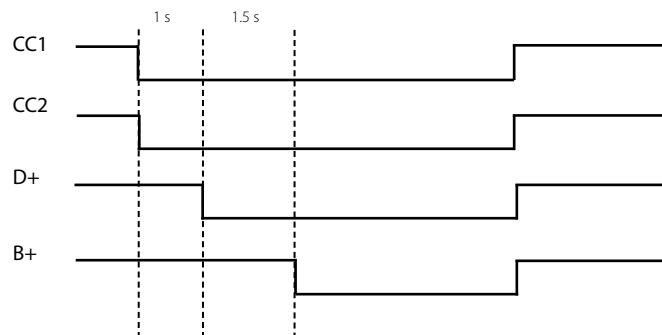




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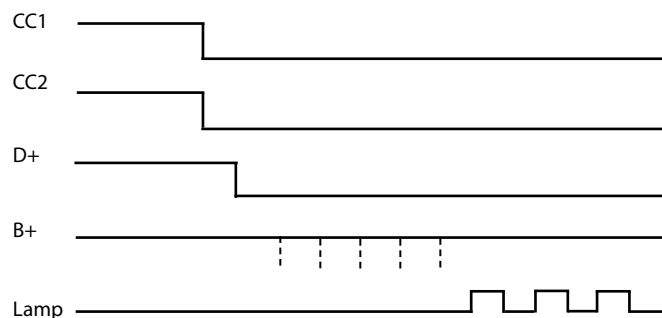
BATTERY MASTER SWITCH

FUNCTIONING



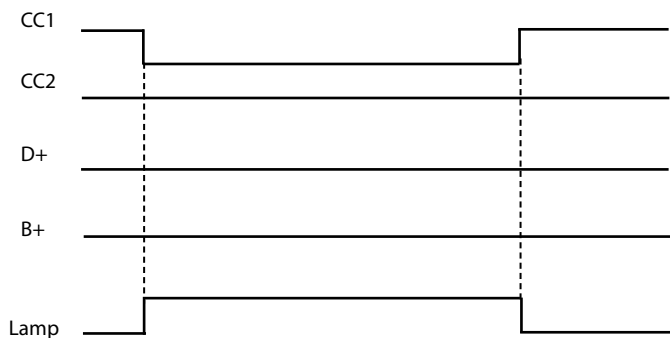
1 BATTERY DISCONNECTION

Just before the disconnection the D+ signal is activated to prevent load dump.



2 FAILURE DETECTION / INDICATION

If the Master Switch does not open after 5 pulses the warning lamp starts to flash (~1 Hz).



3 3 CONTROL CIRCUIT INTERRUPT DETECTION / INDICATION

If one of the two parallel control circuits is failing the warning lamp turns on.