HALE-IS

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SS-05-24
Emergency light, stroller, invalid, stop

- The light signaling function is described using a flowchart. Signaling serves to inform the driver and passengers of the need to stop the car (emergency, stroller, invalid, stop).
- The light outputs are designed for the following power loads. If the above values are exceeded (eg circuit breaker short-circuit), the overloaded circuits are disconnected, each branch separately.
- Button input circuits are designed to trigger the required function by connecting the corresponding input to the car's frame (to the negative terminal of the battery).
- Canceling the selected functions will cause an open door level or impulse signal.
  Signal level: Closed door ... disconnected or grounded input
  Open door … + 24V
  Impulse signal: Closed door ... disconnected or grounded input
  Open door ... descending edge +24V ⇒ 0V
- Acoustic signaling is provided by an internal loudspeaker

Function description:

STOP – After pressing any "STOP" button, the "ZONE" LED lights up in the driver's panel, the info-STOP lights up over the door and the acoustic signal sounds briefly (2.5s). The optical signaling is canceled by opening the door. If the "STOP" button is pressed again, the audible alarm is no longer responding. When the "STOP" button is pressed, the electronics still responds to the "EMERGENCY" button. The output of the electronics connects + 24V to the "STOP" bulbs.

INVALID – When the invalid button is pressed, the indicator "INVALID" flashes in the driver's panel and the info-STOP flashes above the door. The driver sounds an acoustic signal (the same tone as a stroller). The optical signaling is canceled by opening the door. If the "INVALID" button is pressed again, the audible alarm is no longer responding. After
Pressing the button "INVALID" reacts the electronics still with the "EMERGENCY" button. The output of the electronics connects + 24V to the bulbs "INVALID".

STROLLER - When the push button is pressed, the "STROLLER" indicator flashes in the driver's panel and the info-STOP blinks over the door. The driver sounds an acoustic signal (the same tone as a stroller, other than a stop). The optical signaling is canceled by opening the door. If the "STROLLER" button is pressed again, the audible alarm is no longer responding. When the "INVALID" button is pressed, the electronics still responds to the "EMERGENCY" button. The output of the electronics connects + 24V to the "STROLLER" bulbs.

EMERGENCY – After pressing any Emergency button, the "EMERGENCY" button lights up over the door, the driver sounds intermittently with the acoustic signaling. The optical and acoustic signaling is canceled by opening the door. When you press "EMERGENCY", the electronics do not respond to other buttons. The output of the electronics connects + 24V to the "EMERGENCY" bulbs.

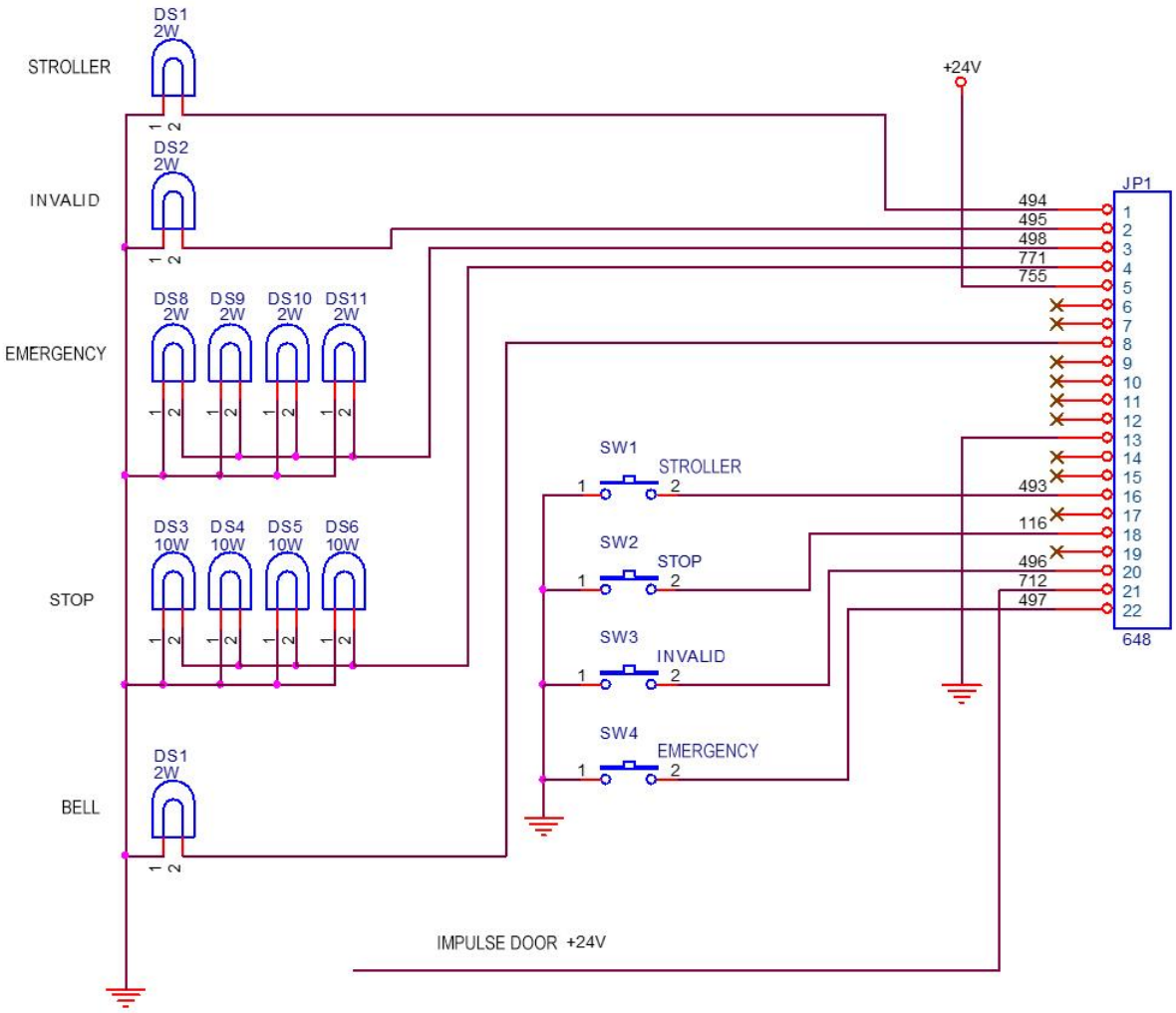
Characteristic data:

Symbol	*Parameter*	*Size*			*Value*
		min.		*max.*	
U_{CC}	Power voltage	20		32	V
U_{OD}	Input voltage – open door	20		U_{CC}	V
U_{IN}	Switching voltage- pin 15,16,18,20,22		0	1	V
$P_{IN,KO}$	Output bulb on output indicator INVALID, STROLLER		5		W
P_{NO}	Output bulb on output Indicator EMERGENCY		4x2		W
P_{ZV}	Output bulb on output Indicator BELL		2		W
P_{ST}	Output bulb on output indicator STOP		4x10		W
I_{CC}	Subscription from source (unloaded outputs)		20		mA
t	Operating temperature	-40		85	^{0}C

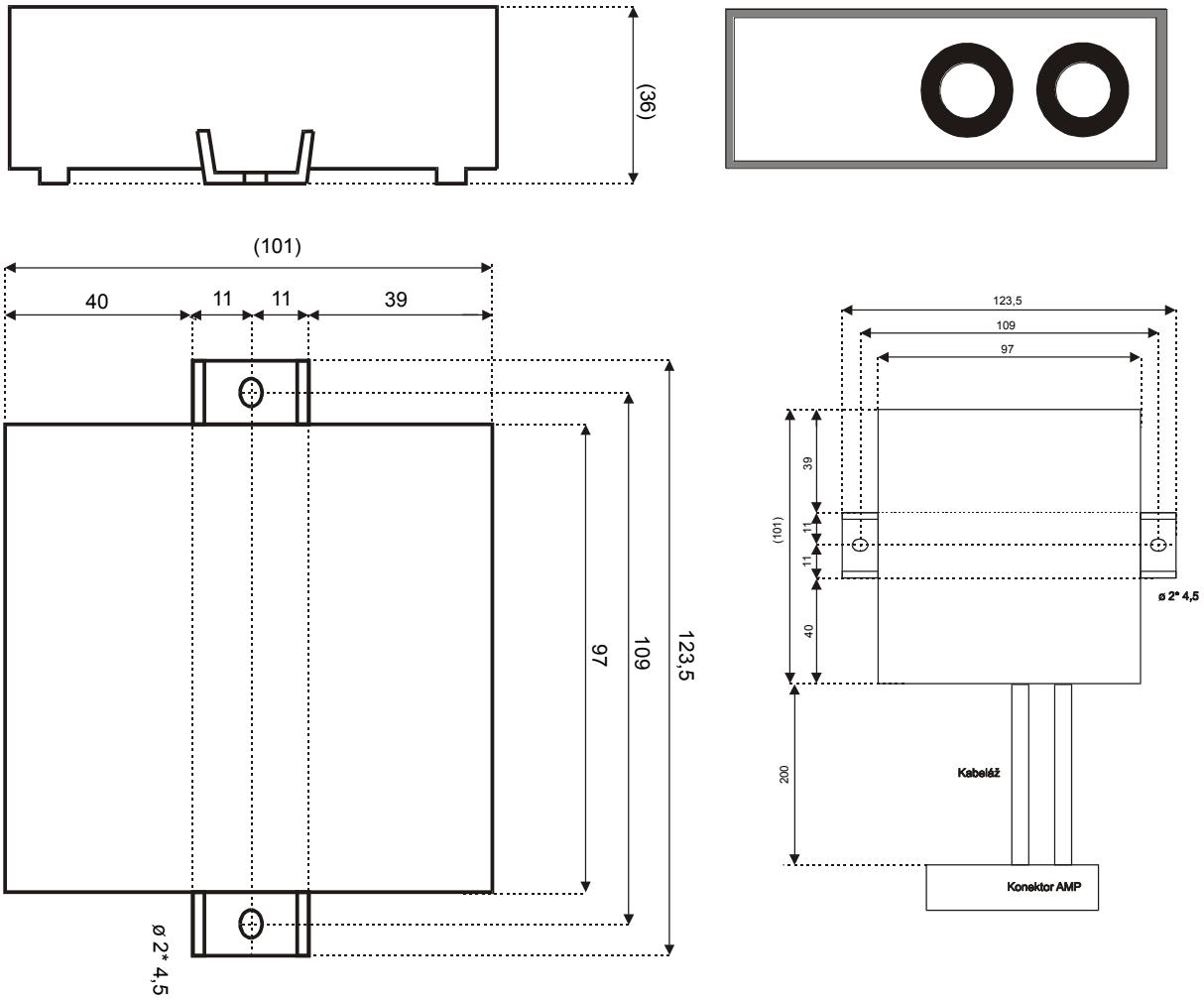
Wiring:

Connecting the 22-pins connector (AMP 828 801-7)

pin	*Title*	*Connecting to the vehicle*
1		INFO STROLLER
2		INFO INVALID
3		INFO EMERGENCY
4		INFO STOP
5		+24V
6		
7		
8		INFO BELL
9		
10		
11		
12		
13		GROUND
14		
15		
16		STROLLER BUTTON
17		
18		STOP BUTTON
19		
20		INVALID BUTTON
21		OPEN DOOR SIGNAL
22		EMERGENCY BUTTON


DS1
2W
STROLLER
DS2
2W
INVALID
DS8
2W
DS9
2W
DS10
2W
DS11
2W
EMERGENCY
DS3
10W
DS4
10W
DS5
10W
DS6
10W
STOP
DS1
2W
BELL
+24V
JP1
494
495
498
771
755
493
116
496
712
497
648
SW1
STROLLER
SW2
STOP
SW3
INVALID
SW4
EMERGENCY
IMPULSE DOOR +24V

Technical drawing: box - black plastic



Used connectors AMP:

0-828 801-7