

LABOR – ASTER

INDUSTRIAL AUTOMATION



DC POWER AND CURRENT LIMITER type CL1 especially for supplying devices (including electronic) installed in a hazardous area e.g. in a flameproof or hermetic housing

PURPOSE:

CL1 limiter provides limit of the power which is brought to power circuits of devices (including electronic) installed in a hazardous area e.g. in a flameproof or hermetic housing. The limiter is set according to the requirements of EC-Type Examination Certificate of the devices.

It allows to set the maximum output current in the range of 0...800mA by the potentiometer located on the front panel. It means regulation of the output power limit in the range of 0...20W (with the supply voltage of 24Vdc).

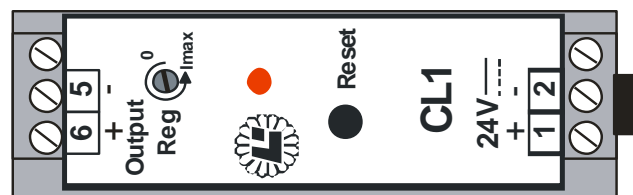
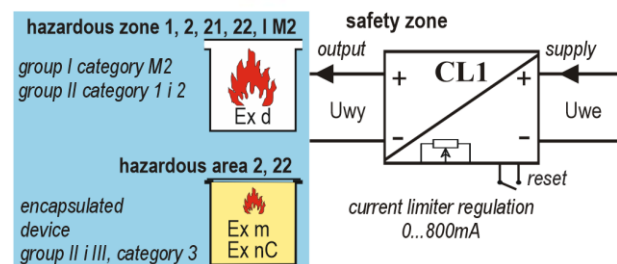
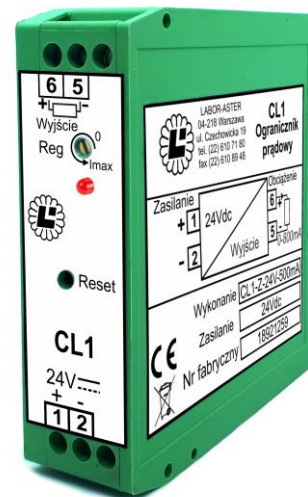
The supply is cut off after exceeding by the current the set power. To restore the supply power press the RESET button or turn off the supply power for a moment (e.g. from at least one of the input terminals "1, 2").

The standard version of the limiter does not provide the output voltage regulation. After agreement it is possible to have CL1 with the output power limiter adjustable in the range of 2...20W by potentiometer (located on the front panel).

The CL1 limiter is produced in a rail version (IP-20) with a width of 22.5mm designed to be mounted on 35 and 32mm rail as well as on a wall-rail (IP-65).

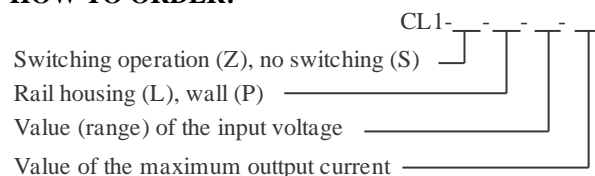
BASIC TECHNICAL PARAMETERS

Supply voltage	- 12...30Vdc
Output voltage	- approximately equal to the supply voltage
Output current limiter adjustable by potentiometer	- 0...800mA
The limiter should be set according to the requirements of EC-Type Examination Certificate of the powered devices.	
Maximum output power	- 20W
Limiter state indication	- red LED lighting when current is limited
Switching operation – for bistate valve control	- description CL1-Z-...
No switching operation	- description CL1-S-...
Housing	- 22,5 x 74 x 79 mm
mounting	- universal hitch
Housing protection level	
rail housing	- IP20
wall housing after agreement	- IP65



Order example: Current limiter CL1, no switching operation, input voltage 24Vdc, maximum load current I=200mA: **CL1-S-24V-200mA**

HOW TO ORDER:



Working conditions:

- Ambient temperature - storing: -30°C...+60°C
- Ambient temperature - working: -25°C...+60°C
- Relative humidity: max 90%, no water vapor condensation
- Ambient atmosphere: free from dust and aggressive fumes

Production and distribution:

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The manufacturer reserves the right to make changes to the product. Issued 07/2024