

Roger Access Control System

ME-5 and ME-5-S v1.0

Metal Enclosure

Document version: Rev. C



1. PRODUCT SPECIFICATION

Metal enclosure ME-5 is designed for the installation of devices and electronic modules dedicated to be mounted on DIN (T35mm) rail. Enclosure offers four mounting rails with a length of 380mm, tamper contact and place for dry gel battery 12V/17Ah. Optionally, as a ME-5-S, it can be offered with 13.8VDC/11A buffer power supply and power distribution module.

Originally, ME-5 was designed for RACS system however, it can be used with 3rd party products as well. Enclosure can accommodate up to nine PR402DR or eighteen PR102DR controllers.

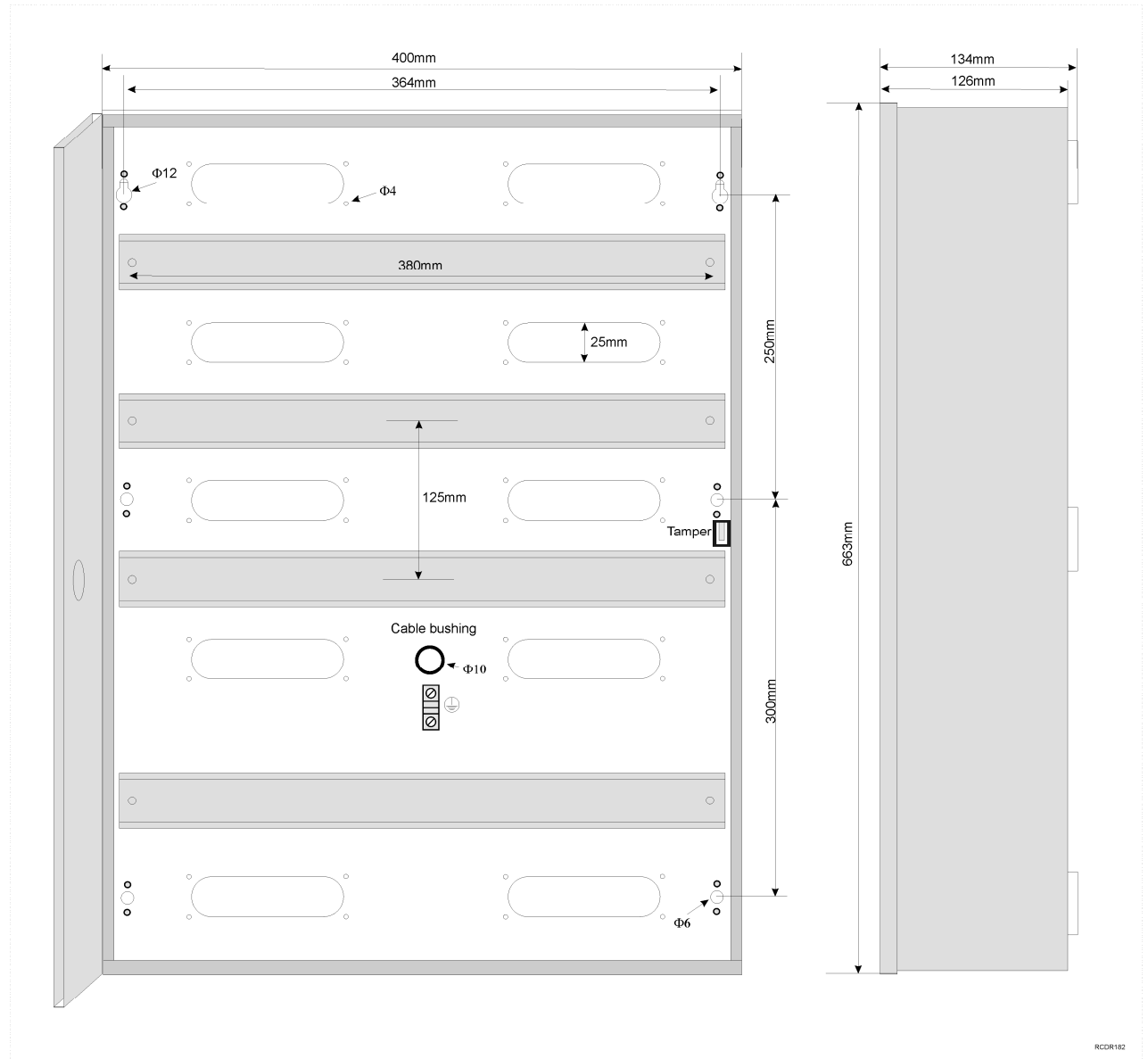


Fig. 1 ME-5 enclosure

Table 1. ME-5 specification	
Parameter	Value
Tamper contact	30VDC/0.5A
Dimensions	400x665x135mm (W x H x D)
Weight	7.2kg

2. INSTALLATION

ME-5 should to be mounted on a vertical part of construction in a location protected from moisture, dust and in location which assures nominal operating conditions required for the enclosure and device installed inside. The 230VAC power supply cable must enter the enclosure through the dedicated cable bushing.

3. ME-5-S SET

ME-5-S set includes ME-5 enclosure and extra components intended for access control application:

- PSBOC15512110 (PSBOC 13.8/11A/OC) buffered power supply
- PSDIN2 DIN rail catch
- LB5/AW (AWZ536) power distribution module

Components listed above must be installed in accordance with Fig.2 and original instruction provided by the their manufacturer (Pulsar Sp.j.).

PSBOC15512110 buffer power supply is designed for continuous operation and doesn't have a supply switch. The electric circuit used to supply the buffered power supply must be equipped with adequate overload protection and allow easy disconnection from the 230VAC mains without necessity of modifications of existing wiring. It is necessary to instruct the end user about the method of disconnecting from the mains voltage, e.g. by means of designated fuse in the switchboard. Electrical installation must be completed in accordance with valid regulations and standards.

The 230VAC power supply cable must be connected to 230VAC L-N power supply terminals while the PE (yellow-green) protective conductor should be connected to screw terminal with ground symbol.

Table 2. ME-5-S specification	
Parameter	Value
Rated power supply	230VAC (+/- 15%), 50Hz
Power supply	PSBOC15512110 (Pulsar Sp.j.) Buffered switched mode power supply with integrated supervisor system
Power distribution module	LB5/AW (Pulsar Sp.j.) Power distribution module with 5 fused outputs (0.5A or 1A)
Output voltage	13.8VDC
Output current	11A max. (including battery charge current)
Battery charge current	1A or 4A
Tamper contact	30VDC/0.5A
Environmental class	-10C..+40C, humidity 10-90% (without condensation)
Dimensions	400x665x135mm (W x H x D)
Weight	8kg



Note: Enclosure should to be installed by a qualified person with adequate permission for 230VAC mains and low-voltage installations. Before installation and maintenance, make sure that the 230VAC mains is disconnected. It is forbidden to use this equipment without proper and effective electric shock protection otherwise it may cause damage to device and/or fatal human injuries (e.g. electric shock).

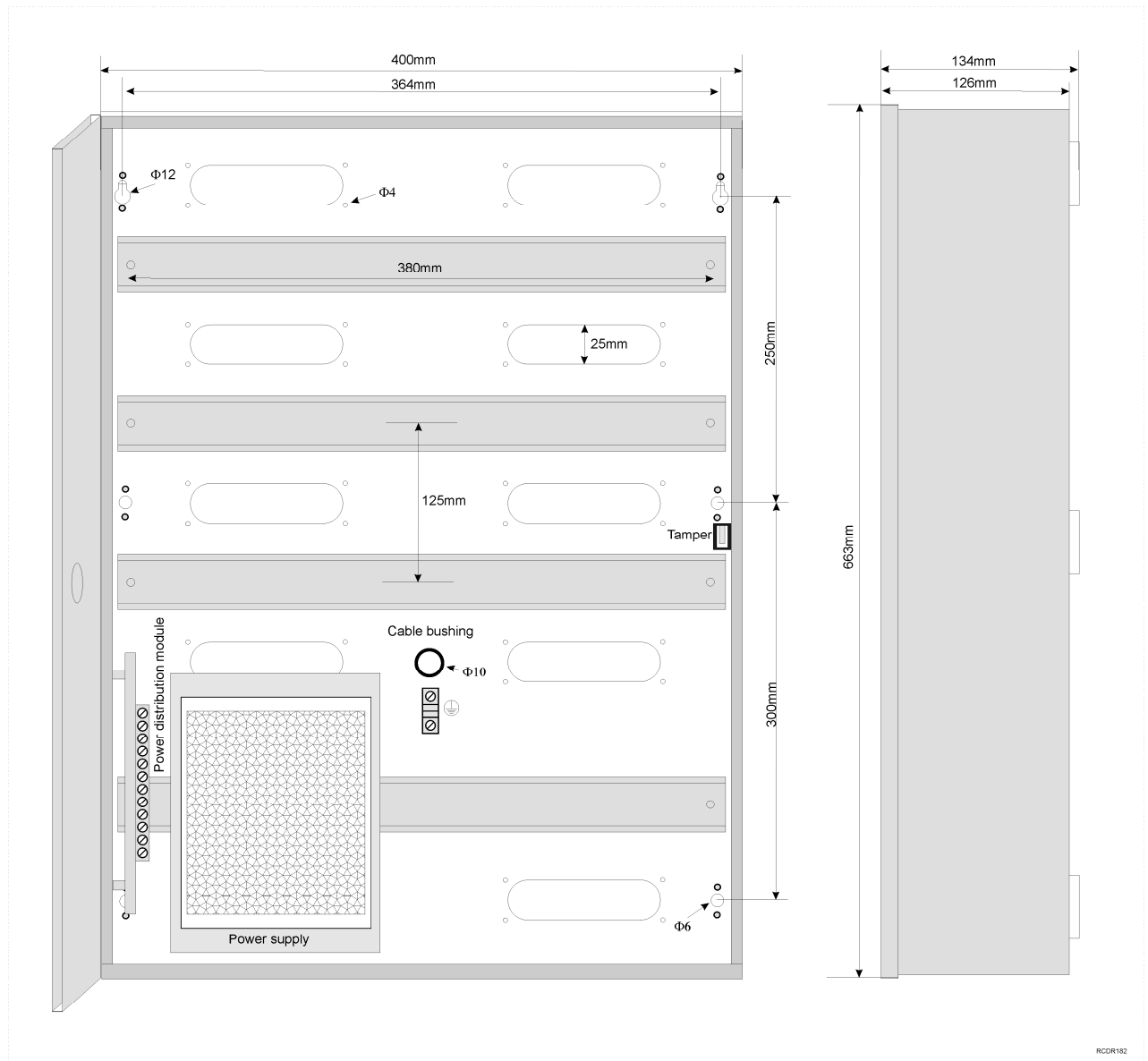


Fig.2 ME-5-S enclosure with power supply and power distribution module installed

Table 3. Approximate operating time on reserve battery (controllers vis battery)			
Battery Controllers	AGM Battery 12V/17Ah	AGM Battery 12V/44Ah	AGM Battery 12V/70Ah
9 controllers PR402DR-12VDC	40h	140h	260h
18 controllers PR102DR	16h	55h	103h
<p>Note:</p> <ol style="list-style-type: none"> 1. The current balance sheet doesn't include actuator attached to the controller 2. 12V/44Ah and 12V/70Ah batteries must be installed outside ME-5 enclosure 			

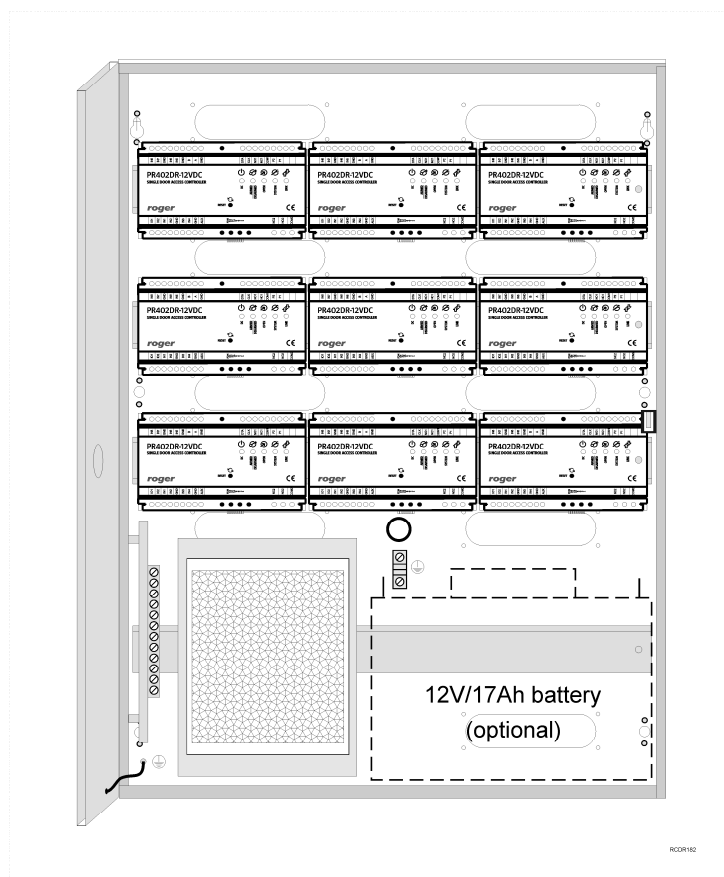


Fig.3 Installation of nine PR402DR-12VDC (sample only)

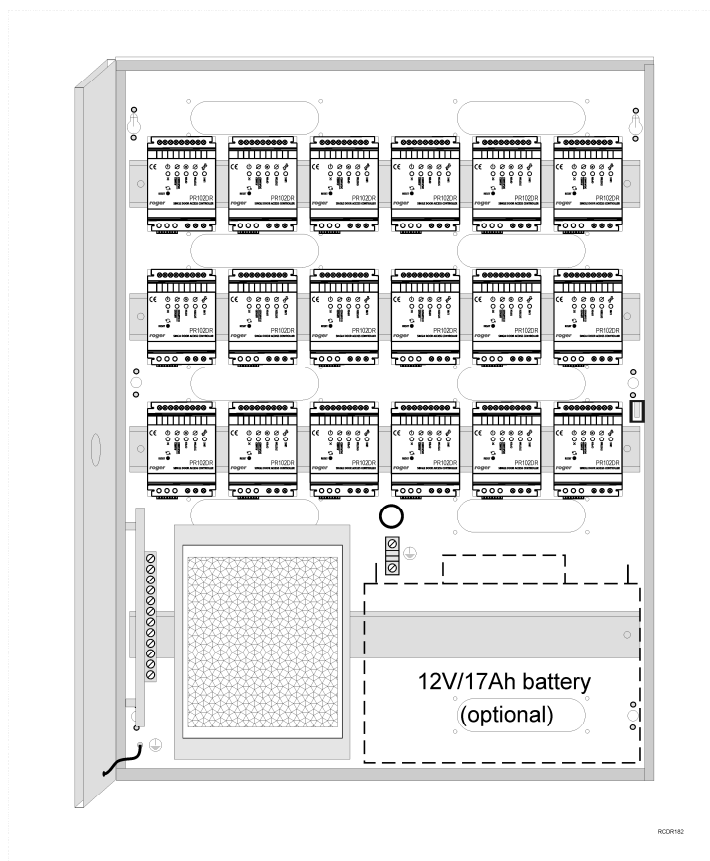


Fig.4 Installation of eighteen PR102DR controllers (sample only)

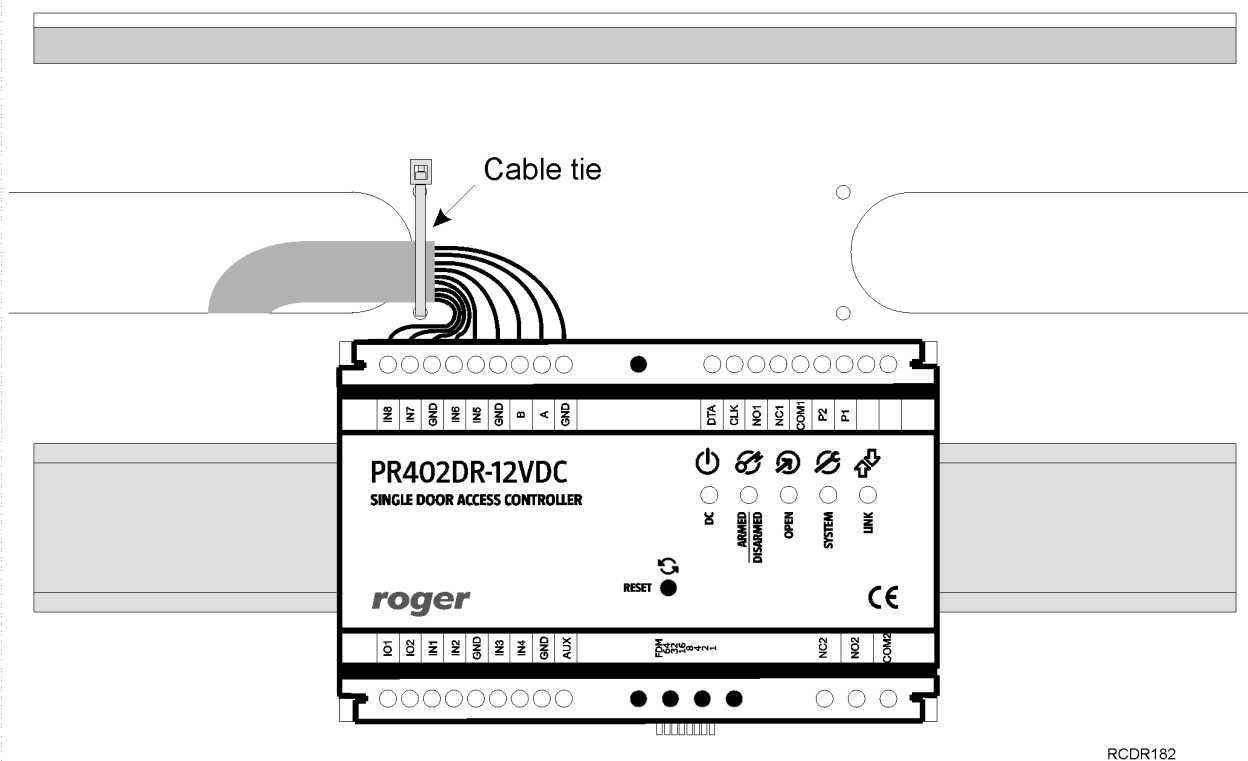


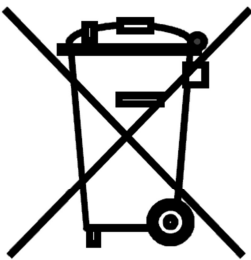

Fig.5 Cable run and fastening

4. ORDERING INFORMATION

Product	Description
ME-5	Metal enclosure
ME-5-S	Metal enclosure with buffered power supply and power distribution module
ML-1	Mechanical lock for ME-5 metal enclosure

5. PRODUCT HISTORY

Version	Date	Description
ME-5 v1.0	07/2013	The first commercial version of the product
ME-5-S v1.0	07/2013	The first commercial version of the product

 	<p>This symbol placed on a product or packaging indicates that the product should not be disposed of with other wastes as this may have a negative impact on the environment and health. The user is obliged to deliver equipment to the designated collection points of electric and electronic waste. For detailed information on recycling, contact your local authorities, waste disposal company or point of purchase. Separate collection and recycling of this type of waste contributes to the protection of the natural resources and is safe to health and the environment. Weight of the equipment is specified in the document.</p>
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