Rosenberger

Magnetic Power Connectors for 12 V and 24 V

MagCode® PowerSystems

AUTOMOTIVE





MagCode® Magnetic PowerSystem 12/24 V

The MagCode® Magnetic PowerSystem is a magnetic connector system for 12 V and 24 V.

Magnets in the PowerPort and PowerClip ensure contact is made between the two parts of the connector as well as providing a switching function. The flat contacts only carry power when the moveable plate in the port is magnetized by the magnets in the clip. Totally short-circuit-proof, the MagCode® PowerSystem is designed to avoid other metal objects or permanent magnets inadvertently energizing the contacts.

MagCode® Magnetic PowerSystemPro 12/24 V

The MagCode® Magnetic PowerSystemPro is a magnetic connector system for 12 V and 24 V with mechanical twist lock.

- Higher separation forces
- Higher current load
- No arcing problem

MagCode® PowerSystemPro features an additional twist lock mechanism for applications where greater separation forces and higher current load are necessary. In addition, the twist lock function guarantees switching will not occur before the outside contact has been closed – therefore eliminating potential arcing problems.

MagCode® Magnetic PowerSystem for 12 V and 24 V



MagCode® Magnetic PowerSystemPro for 12 V and 24 V with mechanical twist lock



Rosenberger MagCode® PowerSystem and MagCode® PowerSystemPro ensure safe and reliable magnetic connection to 12 V and 24 V external power sources. This includes ‘cigarette lighter’ receptacles commonly found on many vehicles such as cars, trucks, vans and campers as well as motorcycles and boats.

Product Features

- High-tech design
- Stable connection
- Up to 10 A MagCode® PowerSystem
- Up to 25 A MagCode® PowerSystemPro
- Waterproof (installed port)
- Voltage 12 V and 24 V
- Mismating of 12 V and 24 V is impossible, due to the different magnetic codings



Product Portfolio

Rosenberger No.	Description	Voltage	Assembly Instruction	Panel Piercing	Product
MagCode® Magnetic PowerSystem					
M2K211-1AE	PowerClip	12 V	MA_M2V001		
M2K212-1AE	PowerClip	24 V	MA_M2V001		
M2S111-3XX	PowerPort	12 V	MA_M2V001	MB_612	
M2S112-3XX	PowerPort	24 V	MA_M2V001	MB_612	
MagCode® Magnetic PowerSystemPro					
M2K203-1AE	PowerClip-Pro	12 V	MA_M2V002		
M2K204-1AE	PowerClip-Pro	24 V	MA_M2V002		
M2S103-3XX	PowerPort-Pro	12 V	MA_M2V002	MB_378	
M2S104-3XX	PowerPort-Pro	24 V	MA_M2V002	MB_378	
Accessories					
M2Z101-3XX	Protection Cap				



Technical Data MagCode® Magnetic PowerSystems

Electrical & Mechanical Data	MagCode® PowerSystem	MagCode® PowerSystemPro
Locking mechanism	magnetic	magnetic and mechanical
Terminal PowerPort	6.3 mm flat connector	cable
Connection technology	flat connector/soldering	soldering/crimping
Terminal PowerClip	screw type	screw type
Max. wire cross section	1.5 mm^2	2.5 mm^2
Mounting cut-out PowerPort	Ø 28.0 mm (M28)	Ø 28.0 mm (M28)
Mounting depth PowerPort (with/without fastener ring)	20 mm	26 mm
Height of PowerClip (with/without fastener ring)	21.5 mm / 18.5 mm	28.0 mm / 24.5 mm
Rated voltage	12 V / 24 V DC	12 V / 24 V DC
Max. current load	10 A @ +60 °C	25 A @ +70 °C
Vibration resistance	3 axes, 8 h, 5 Hz - 200 Hz, 8.5 m/s^2	3 axes, 8 h, 5 Hz - 200 Hz, 8.5 m/s^2
Shock resistance	3 axes, 13000 shocks, 11 ms, 30 g	3 axes, 13000 shocks, 11 ms, 30 g
Dust- und water resistance		
Port (frontside, installed)	IP 6K9K	IP 6K9K
Port (connection side)	IP 5K0	IP 5K0
Clip (not connected)	IP 40	IP 40
Clip (on Port)	IP 40	IP 40
Duty cycles without load	> 10000 cycles	> 10000 cycles
Duty cycles at 15 A	4000 cycles	4000 cycles

Website

For more information refer to our website:
www.rosenberger.com/magcode

Rosenberger

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