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installed.





MLR Mechatronic Locks for Racks

MLE Mechatronic Locks for Enclosures

MLI Mechatronic Locks for Industrial Applications

MLU Mechatronic Locks for Universal Applications

MLM Mechatronic Locks Management





	OFFSET		
stem, laandle ism in ing. Flat to the	The revolving pull handle drives the locking slide on the side of the handle. The laterally operated rod system is typical for the offset version.		
king Period"	Swinghandle black plastic recess, zinc diecast handle mat chromeplated		
	Control unit plastic enclosure, can be fixed with screws or selfadhesive pad		
	Connection Cable 8-pin; 350 cm; UL-approved, 26 AWG stranded wire; RJ45 connector molded onto one end; crimped JST ZHR-8 connector on other end		
	An external power unit is not included in the scope of supply, but can be ordered as an accessory.		



Mechatronic Locks for Racks









We offer a variety of mechanical adapters for all major rack manufacturers or we can design a customized solution.



26 AWG stranded wire; RJ45 connector molded onto one end; crimped JST ZHR-8 connector on

of supply, but can be ordered as an accessory.









MLR5000 (KP)

Designed to facilitate convenient central monitoring and administration of decentralized server racks. The swinghandles are assigned unique IP addresses.

MLR3000 (KP)

Particularly well suited for rooms containing a large number of server racks (central server rack structure). With just one IP address it is possible to manage up to 32 swinghandles in one E-LINE by DIRAK gateway.



MLR1000

The MLR1000 offers a hardware interface, to facilitate integration in the existing management. Following activation of the potential-free contacts or an input voltage of 12–24V DC , the system switches to readiness for opening. Only after a manual prompt at the lever does this open.



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MLE5000 RFID ANTENNA

Interface TCP/IP, Ethernet, RS 232 RS 232 line (RXD, TXD, GDN, reader present, PC present), 38,400 Baud Storage space for transponder (125 kHz) 2,000; 13,56 MHz on request / with Key Pad on request 1 master Storage space for 500 events (ring memory) + 30 time profiles Stand-alone possible Relay output and door contact input Standby current (DC) 40 mA Max. current consumption (DC), RJ 12/Lock 1.4 A Max. current consumption (when engaging the coupling) 3.0 A (DC), terminal 10–11 Multicolored status LED can be deactivated Material Zinc diecast powder-coated and plastic Temperature range -20 °C ... +70 °C Integrated real-time clock with buffering up to 60 min. at 25 °C Watertight and dust-tight IP65 Nominal input voltage 12 V / 24 V / 48 V (DC) ±10 % 120 mA, (depending on lock connected) Power over Ethernet capable





MLE5000 RFID ANTENNA

Communication with the MLE5000 RFID Antenna takes place via TCP/IP protocol. Each antenna receives a static IP address and is reachable in the network at all times. The advantage: No separate bus system is required for the MLE5000 RFID Antenna because the existing Ethernet LAN is used here. This system is therefore quick and easy to install.

CONNECTION

RJ 45-PLUG

SCOPE OF SUPPLY

Antenna enclosure: zinc diecast, light gray

powder-coated, front: plastic)

Control unit

plastic enclosure, can be fixed with screws or selfadhesive pad

Connection cable

7 m control line, tool-free configurable RJ 45 connector (control line can be independently shortened)





ALTERNATIVELY:









swing handle zinc diecast - BROWN SOLENOID





MLE1102

The MLE 1102 can be connected to all existing management systems for lock control. The positive/ negative contacts for the electronic opening function of the swinghandle are therefore connected with the control module of the respective system. Together with the transferred status of the lever positions (open/closed) this can enable further evaluations. Whilst the management systems usually only display whether the cabinet door is "open" or "closed", with the MLE1102 you have further possibilities.





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		SUPPLY
"Or"	"And"	
-	-	swing handle
10%/120mA	24V±10%/120mA	zinc diecast
y/Cylinder	Key/Cylinder	
stablished	interrupted	
witch (potential-free)	Inductive sensor	
black powder-coated		
2 r	nm	
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"And"	"Oi
 • 	-
V±10%/120mA	48V±10%
-	Key/Cy
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nductive sensor	Proximity switch
ck powder-coated	
2 mm	
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Closing LED handle status Power supply (DC) 24 Opening for electronic opening Power supply Status request Color* bla Wall/sheet thickness installable cylinder Watertight and dust-tight (IP65) Vandalism class RC2

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*Customer-specific colors on request

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MLE1200

Connect the positive and negative contacts for the electronic opening function of the swinghandle with the control module of your authorization or monitoring system. For evaluation purposes, use the status issued by the swinghandle (open or closed).

MLE2100 und 2200

Simply integrate the MLE 2100/2200 in an existing management system. Connect the positive and negative contacts for the electronic opening function of the swinghandle with the control module of your authorization/ monitoring system. The lever position (open or closed) is signaled by means of data transfer and enables further evaluations. In this way the MLE 2100/2200 expands the status control of conventional management systems.

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Mechatronic Locks for Industrial Applications







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MLI1101

Black plastic (PA6) singlecolor LED Ready for opening Power supply 24 V ±10% (DC), 220 mA Status request: Proximity switch (potentialfree) Plate cylinder "Or" closing for electronic opening power supply established Wall/sheet thickness 2 mm (plus powder-coating)



Illuminates: Ready to open

MLI1101

Connect the positive and negative contacts for the electronic opening function of the swinghandle with the control module of your authorization or monitoring system. For evaluation purposes, use the status issued by the swinghandle (open or closed). You can detect at any time whether a fault is present or sabotage took place.

SCOPE OF SUPPLY

Swinghandle zinc diecast, black











MLU reader Black plastic Reader unit

plastic enclosure, can be fixed with screws or self-adhesive pad

Connection cable 8-pole, 350 cm, UL strand AWG 26, one end with molded RJ45 connector, one end with crimped JST ZH connector ZHR-8

Alarm Handle open Door open "Green Period"

Interface Nominal input voltage (DC) Storage space for transponder Stand-alone LED lock status LED sabotage alarm/ready for opening Illuminated info field Reader 125 kHz Reader 13,56 MHz Relay output (via screw terminal) 2,5 mm², can be connected from the plug-in side Door contact input Integrated real-time clock with buffering up to 60 min. at 25 °C Temperature range -20 °C ... +70 °C Storage for 500 events and 30 time profiles Standby current (DC) Max. current consumption (DC), RJ 12/Lock Max. current consumption (DC) on relay terminals current-free open/closed Power over Ethernet capable









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Proximity switch status

for electronic opening voltage supply interrupted or connected

independend of wall/sheet metal thickness Color mat chrome-plated Power supply 12/24/48 + 10% (DC) with 140/90/50 mA

locking pressure ca. 200 kg

Lock zinc diecast, mat chromeplated Control line 4 m





DOOR CONTACT

MLU1000

WHITE SOLENOID BROWN SOLENOID GREEN REED CONTACT YELLOW REED CONTACT

The MLU1000 can be connected to existing management systems for lock control and is therefore optimally suited for combination with the MLU 3000/5000. The positive/ negative contacts for the electronic opening function of the MLU1000 are therefore connected with the control module of the respective system. This can enable further evaluations with the transferred status (open/closed).

MLU5000

Communication with the MLU 5000 takes place via the TCP/IP protocol. Each reader receives a static IP address and is reachable in the network at all times. No separate bus system is required for the MLU 5000. The MLU5000 system with the associated Administration Suite Software guarantees convenient and reliable access monitoring.

MLU3000

Communication with the MLU 3000 takes place via the ELINE by DIRAK-Gateway. It forms an interface between the RS485 bus and the Ethernet/LAN and performs the transfer and conversion of the information in the RS485 bus. The nodes always form the junction for a further MLU3000 reader unit. One gateway can manage a maximum of 32 MLU3000 and MLU 1000. The MLU3000 system with the associated Administration Suite Software guarantees convenient and reliable access monitoring.





MLM ADMINISTRATION SUIT

Seamless documentation Server Client Application Display of the handle status in real-time Automated task management Release time (permanently ready to open) / Lock time (no accidental re-patching on the server possible during ongoing data backup) Comprehensive alarm management Active directory integration Interfaces for 3rd party systems Four-eyes principle for higher security levels Assignment of rights to different users Planned access Super user card (always authorized) Colored configuration of the information field simplifies the management of rack groups for better overview Temperature monitoring

Data communication between the hardware, server and client is encrypted Locking systems MLR, MLE, MLU

(See previous page)

