

# ELECTROMECHANICAL LOCKING DEVICE

# hdLOCK-EX<sup>MODBUS</sup>

Art. No. 102100.1



HD-Lock Ex-Proof covers high regulatory requirements in explosion endangered areas. The device offers bus capability and intelligent electrical control.

- » Ex II 2G Ex db IIB T4 Gb
- » Small dimensions
- » High protection class (IP 65)
- » Bolt retraction in case of voltage breakdown
- » Seawater resistant

HD-Lock Ex-Proof is designed under consideration of „pressurized encapsulation“ and application of norms EN 60079-0:2012+A11:2013 and EN 60079-1:2014 together with directive 2014/34/EU.

High quality, high lifetime and outstanding robustness is achieved by using a robust V4A stainless steel housing in relation with a high quality brushless motor.

The product can be controlled via static signals or serially by Modbus protocol with application of device addresses. The functionality of the static signals is parameterisable via Modbus protocol.

Within complex systems there are voltage fluctuations on a regular basis. Our product continuously checks motor voltage and balances fluctuations if required. Hence, breakdowns as a result of unexpected fluctuations are avoided. Conceivable would be that the system administrator is notified by the system if voltage exceeds defined values.

Technical modifications and errors excepted.

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## Product details:

- » Operation Voltage Range: 10 bis 30 V DC
- » Standby power (input is not active): approx. 22 mA
- » Holding current supply at extended bolt: 55 mA / 24 V
- » Input current supply to activate the input: 0.2 mA
- » Minimum pulse length for the inputs: 20 msec
- » Output-current: 25 mA
- » Bolt dimensions: approx.  $\varnothing 12 \times 21$  mm
- » Closing / opening time without load: < 0.5 sec
- » Closing force: 2 N
- » Retract. force without power supply: 1.2 N
- » Operating temperature: -15°C to +60° C
- » Protection Class: IP 65
- » Shear strength of the bolt: 15 KN
- » Weight: approx. 1 kg
- » Cable length: 3 m
- » Material of housing: 1.4404 (316L)
- » Material of bolt: 1.4404 (316L)

## Accessories:

- » 102900.2 - Programming Unit HD-FlexBrake / HD-Lock



102900.2

FACILITIES - MACHINERY & PLANTS - TRANSPORT & SECURE STORAGE

BSS Baumann  
Sicherheitssysteme GmbH  
Stockacher Straße 30  
78315 Radolfzell, Germany

Tel.: +49 (0) 7732 98279-0  
Fax: +49 (0) 7732 98279-10  
www.bss-sdi.com  
info@bss-sdi.com



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