System Release Changelog

LBK S-01 System / LBK SBV System

Topic	System Release Changelog
Title	LBK S-01 System / LBK SBV System
Version	1.1
Date	09.01.2026
Author	RB
Department	PC04
Status	in process
Filename	Leuze_System-Changelog_V10

History

Date	Version	Author	Status	Comment
08.01.2026	1.0	RB	first version	
09.01.2026	1.1	RB	in process	features of input and output function updated

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1 Scope

The scope of this document is to provide a changelog of firmware and software releases of the LBK S-01 System and LBK SBV Systems.

2 System Release

A *System Release* is intended as a combination of the following products:
- Control units
- Sensors
- Configuration tool (software)

For every system release, an overview of the main modifications, new features, bug fixing and known issues is provided.

2.1 System Release 2.0.1 / 2.1.1 / 5.1

Control Units	Differences
LBK ISC BUS PS LBK ISC100E-F LBK ISC-02 LBK ISC-03 LBK ISC110E-P LBK ISC110E-F LBK ISC110E LBK ISC110	**FW Revisions** FW: From V2.0.0 to V2.0.1 *Note: downgrade to V2.0.0 automatically performed by LBK-S01 System if a LBK S-01 sensor is connected* **New Features** • New input functions (both digital line and fieldbus) called *Antirotation reference saving* and *Antimasking reference saving*. **Changes** • Optimization of the sensor discovery function in terms of speed and reliability • PROFIsafe / FSoE fieldbus: New manual restart behaviour of the status byte of the fieldbus (DFs remains off even in waiting for restart) • New muting behaviour: allowing the sensor to reach muting status only when all sensors in the group are not in detection **Bug Fixing** • FSoE fieldbus: muting feedback behaviour fixed • User creation after non-compliant password fixed • OSSD cross-check diagnostics for detection signal groups fixed

Control Units	Differences
LBK ISC110E-C	**FW Revisions** FW: V2.1.1 *Note: LBK-S01 System is not supported* **New Features** • New input functions (both digital line and fieldbus) called *Antirotation reference saving* and *Antimasking reference saving*. • New output function (both digital line and fieldbus) called *Detection Warning N* where N is the number of the detection field. The function realizes a single channel output signal, if the related detection field is violated. • New output function (both digital line and fieldbus) called *Detection Warning Group N* where N is the number of the detection group. The function realizes a single channel output signal, if one detection field within the related detection group is violated. **Changes** • Optimization of the sensor discovery function in terms of speed and reliability • PROFIsafe / FSoE fieldbus: New manual restart behaviour of the status byte of the fieldbus (DFs remains off even in waiting for restart) • New muting behaviour: allowing the sensor to reach muting status only when all sensors in the group are not in detection **Bug Fixing** • FSoE fieldbus: muting feedback behaviour fixed • User creation after non-compliant password fixed

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Sensors	Differences	
LBK SBV201 LBK SBV205	**FW Revisions** FW: From V5.0 to V5.1 **Changes** • LBK SBV201 and LBK SBV205: Optimization of the thresholds to guarantee a higher robustness in mobile applications • Masking reference saving behaviour has been improved and optimized to reduce false activation	

Configuration Software	Differences
LBK Designer	**SW Revisions** 2.9.x **New Features** • *Antimasking* and *antirotation reference saving* via digital inputs added • Support of control unit FW v2.0.1 and v2.1.1 added • Support of CIP Safety controller added **Changes** • Support of control unit FW earlier than v2.0.0 removed

2.2   Compatibility

Compatibility Sensor vs Control Unit			
Sensor	LBK S-01	LBK SBV-01	LBK SBV201 LBK SBV205
Sensor FW Version	v2.10	v3.x	v5.x
Controller FW v2.0.0	OK	OK	OK
Controller FW V2.0.1	NO	OK	OK
Controller FW v2.1.1	NO	OK	OK

Compatibility Configuration Tool vs Control Unit		
LBK Designer SW Version	v2.8.x	v2.9.x
Controller FW v2.0.0	OK	OK
Controller FW v2.0.1	NO	OK
Controller FW v2.1.1	NO	OK