

PRODUCT SPECIFICATIONS



AGNOSYS Series F V3.5 BKM4-35-F

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	Reviewed by:	-		
	Reviewed by:	-		
			Project:	8

1 History

Date	Editor	Description
18/01/2016	RO	First version
18/02/2016	RO	Revision of printed circuit board
22/02/2016	MAR	Various changes, clearance
02/10/2016	RO	Correction of a term on the overview sketch
11/11/2016	LG	Update of images; release status
24/07/2018	LF	Update identification color hybrid cable

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3 General Information



BKM4-35-F

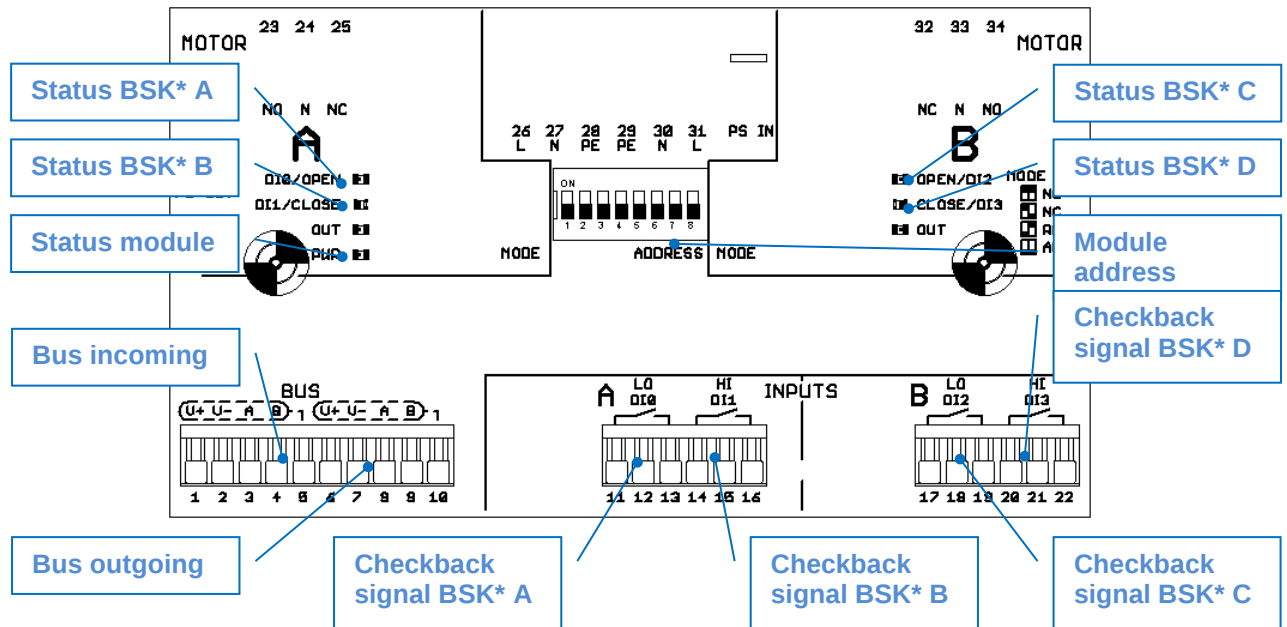
- BKM4-35-F fire-damper module IP20, for wall mounting, to connect 4 fire-dampers with end position control, without management function.

The module serves to monitor fire-dampers with end position feedback and without control capability. Up to 4 fire-dampers can be monitored per module.

Features:

- Communication with the superior control unit takes place via bus-ring.
- Monitoring of up to four fire dampers, with one feedback each.
- Operation of up to 63 modules (depending on execution) per bus-ring system at a max. distance of 900m.
- Supply with 24VDC voltage.
- Simple connection through vertical push-in terminals.

Overview



***BSK: fire-damper**

Module address

The module address is set via switches 1-7 as a binary-coded number. Switch 8 serves to reset the module. Switch 8 is essential in order to change the address during operation.

Status BSK (fire-damper)

The status of a BSK (fire-damper) is signalled via a green LED.

Status module

The module status indicator serves to visualise the supply status and communication. When the module is correctly supplied, this indicator is lit. The indicator flashes once for every data packet that has been correctly received via the bus. If a faulty data packet is received, the indicator flashes three times.

4 Safety Regulations

- The device may only be used for the specified purpose.
- Warning! The device carries live voltage!
- The device may only be installed and put into operation by trained specialists.
- The device may only be opened by the manufacturer. It does not contain any parts which the operator can maintain themselves.
- The device contains electronic components and may not be disposed of in general waste.

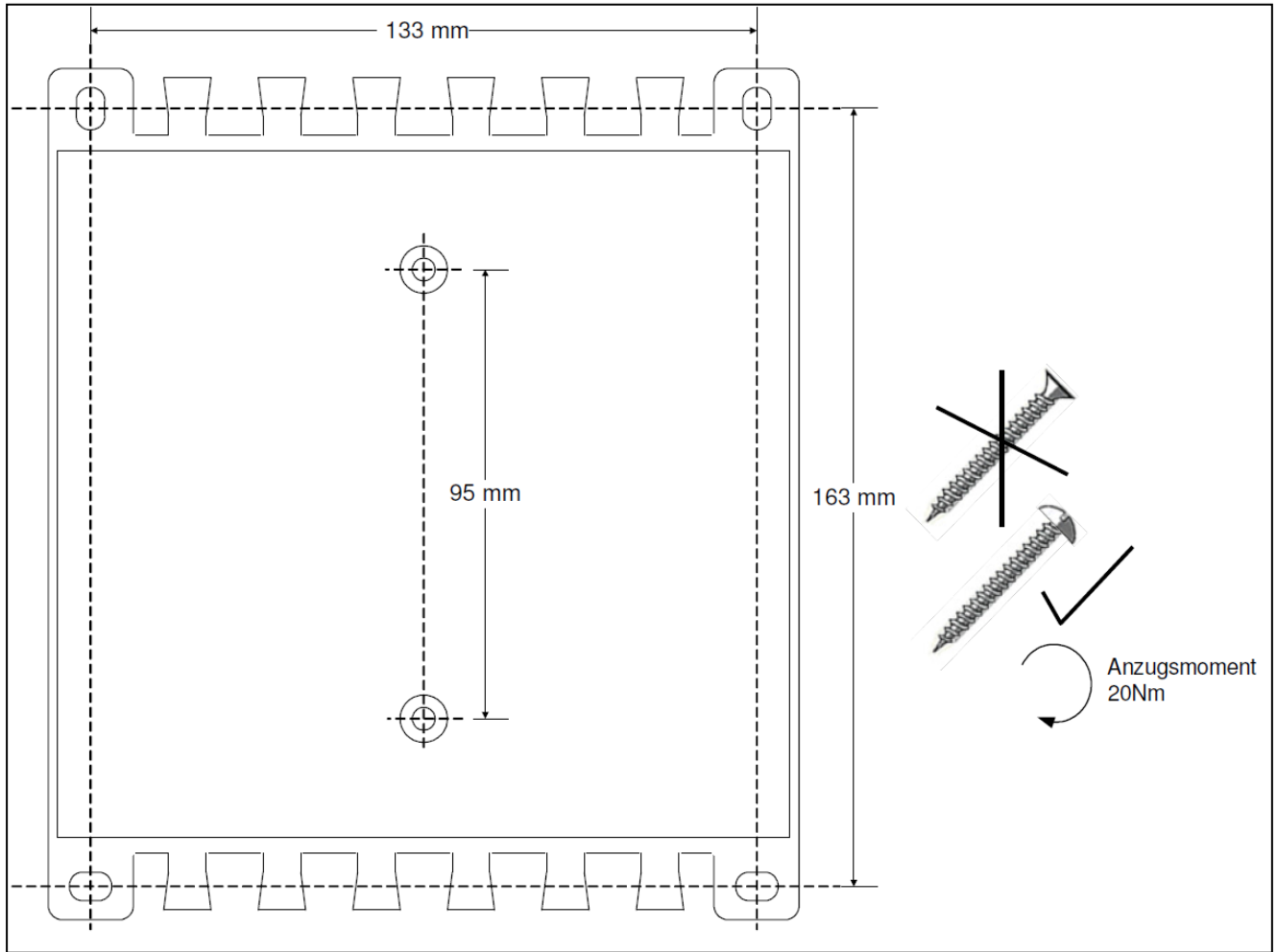
5 Dimensioned Drawing and Mounting Instructions

The fire-damper module (BKM4-35-F) can be mounted on any flat surface, either externally with four 5mm round-head screws or internally with two 5mm self-tapping cylinder-head screws (not included with the product).

Due to protection concerns, the module may only be mounted in a dry environment, out of normal human reach (suspended ceilings, engineering/maintenance rooms, vertical ducts etc.).

The module may not be mounted above or next to significant sources of heat, such as a furnace, in order not to exceed the maximum permissible operating temperature. It should be noted that an increase in temperature can also occur via the surface which the module is mounted on. Warning: the maximum tightening torque of the mounting screws is $\leq 20\text{Nm}$!

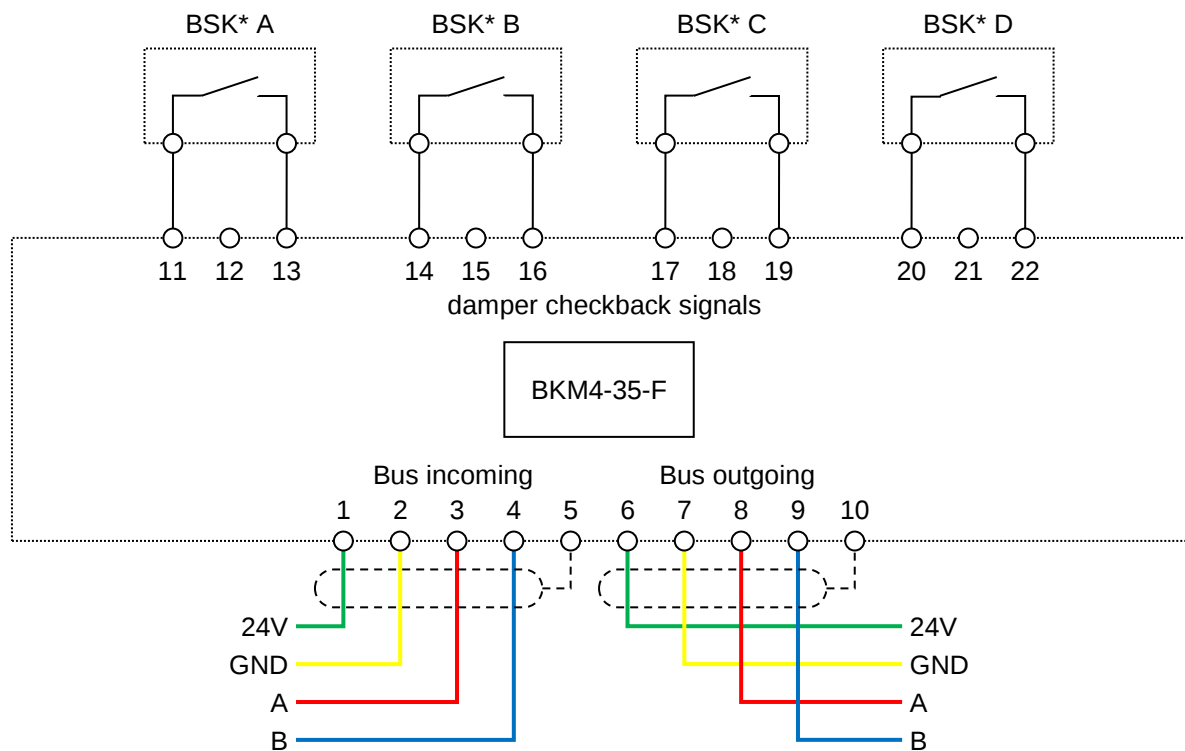
NOTE: When fitting the cover, it should be ensured that it audibly snaps into place on the left as well as on the right side! Otherwise, the long-term shape and stability of the shutter cannot be guaranteed!



BKM-35-F

Tightening torque: 20Nm clockwise

6 Wiring Diagram



*BSK: fire-damper

Identification color of Agnosys hybrid cable

Description	Color
V+ / 24 V	Green (gn)
V- / GND	Yellow (ye)
Bus A	Red (rd)
Bus B	Blue (bu)

7 Technical Specifications

Electrical data	
Supply voltage	DC 18 – 32V (24V typ.)
Current consumption	Max. 10 mA
Protection rating	IP20 (EN 60529)
Protection class	II
Execution	
Digital inputs	4 for checkback signal fire-damper limit switch (potential-free)
Terminal bus-ring, checkback signals	
Terminal cross-section	Solid-wired: 0.2 – 1.5mm ² Fine-strand (without ferrule): 0.2 – 1.5mm ² Fine-strand (ferrule with collar): 0.25 – 0.75mm ² Fine-strand (ferrule without collar): 0.25 – 1.5mm ²
Environment variables	
Permissible ambient temperature	0 – 45°C
Permissible ambient humidity	10 – 90 % RH non-condensing
Measurements (width x height x depth) [mm]	
BKM4-35-F	158 x 180 x 65
Weight	
BKM4-35-F	Approx. 450g