

## FUB-FUB-FB-GZ-S79A-S80A-G11 FUB-FUB-FB-GZ-S79A-S80A-G11 - Roller sunblind switch block - V.5,

ISTA system version	4.36.30.27051	Data version	R4.36.30	Programming data	-
		Vehicle	5/F90/SEDAN/M5/S63,-/AUTO/US/LL/2018/04		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	-				

## Roller sunblind switch block

Depending on the series and the vehicle equipment, roller sunblinds can be installed on the rear window or on the side window glass (rear driver's side and rear passenger's side).

If the vehicle is equipped with roller sunblinds for the rear side window glass, 2 roller sunblind switch blocks are available in the rear.

The following buttons are found on the switch block depending on the equipment:

- Button for roller sunblind, rear window
- Button for roller sunblind, rear driver's side
- Button for roller sunblind, rear passenger's side
- Button for roller sunblinds for panoramic glass sunroof

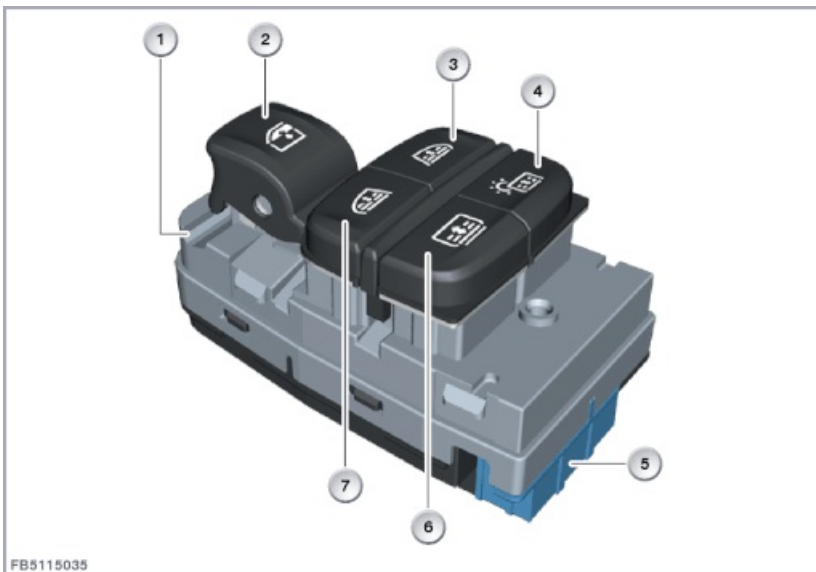
## Functional description

The roller sunblind switch blocks are connected to the Body Domain Controller (BDC) via a LIN bus. The BDC control unit picks up the button signals and evaluates them. In accordance with the outcome from signal evaluation, the BDC control unit activates the drives for the roller sunblind via the electronic component in the corresponding switch block. The supply voltage for the roller sunblind drive on the rear driver's side or on the rear passenger's side is delivered to the electronic component.

From terminal 15 ON, the roller sunblinds can be extended or retracted. If the terminal status changes while the roller sunblinds are being extended or retracted (terminal 15 OFF), the function in progress is completed. i. e. the roller sunblind will always be fully extended or retracted.

All buttons for the roller sunblinds only have one switch position for both operating directions (extending and retracting). Pressing the relevant button briefly causes the selected roller sunblind to be extended or retracted fully. If the button is operated again while the roller sunblind is being extended or retracted, the direction of travel changes immediately.

If the rear side window is opened when the roller sunblind is extended, the roller sunblind retracts automatically.

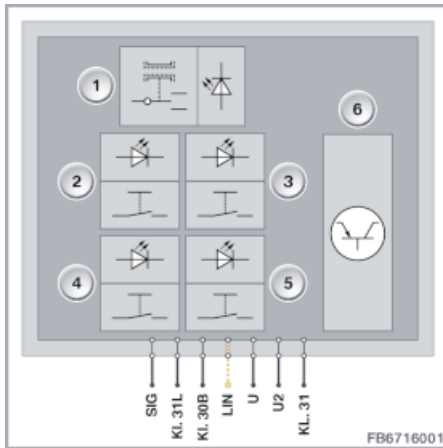


Index	Explanation	Index	Explanation
1	Switch block	2	Power window switch
3	Switch for roller sunblind, side window glass, right	4	Switch for roller sunblinds for panoramic glass sunroof (depending on equipment)
5	eight-pin plug connection	6	Switch for roller sun blind, rear window (depending on equipment)
7	Switch for roller sunblind, side window glass, left		

## Structure and inner electrical connection

The switch block with power window switch and buttons for the roller sunblinds is connected to the vehicle electrical system and to the LIN bus by an eight-pin plug connection.

The locator lighting (terminal 58g) for the power window switch and for the buttons that operate the roller sunblinds is controlled via the LIN bus by the Body Domain Controller (BDC).



Index	Explanation	Index	Explanation
1	Power window switch	2	Button for roller sunblind with locator lighting, rear driver's side
3	Button for roller sunblind with locator lighting, rear passenger's side	4	Button for roller sunblind on rear window with locator lighting
5	Button for roller sunblinds for panoramic glass sunroof with terminal 58g	6	Electronic component

### Pin assignments

Pin	Explanation
Terminal 30B	Terminal 30B basic operation, voltage supply from rear power distribution box
Terminal 31	Terminal 31 power window switch
Kl. 31L	Terminal 31, load earth (buttons for the roller sunblinds)
LIN	LIN bus with connection to the Body Domain Controller (BDC)
SIG	Signal line from the power window switch to the control electronics in the power window drive
U	Supply voltage for roller sunblind drive (Function: Extend roller sunblind)
U2	Supply voltage for roller sunblind drive (Function: Retract roller sunblind)
1 pin not used.	

## Nominal values

Comply with the following setpoint values for the roller sunblind switch block:

Variable	Value
Voltage range	9 to 16.5 V
Temperature range	-40 °C to 85 °C

## Diagnosis instructions

### Failure of the component

If one of the buttons for the roller sunblinds fails, the following behaviour can be expected:

- Short circuit to ground  
A short circuit to earth has the same impact as a continuously actuated button (button jamming). The drive for the roller sunblind is activated until the roller sunblind has fully been extended or retracted. Then sustained operation is ignored. The roller sunblind can be extended or retracted using a keystroke only after a change in status of the button (signal change from low to high).  
The roller sunblind can be operated any time from other operating points (e.g. using the button on the driver's door switch block).
- Line disconnection (power supply or LIN bus)  
The roller sunblind can no longer be extended or retracted. If there is a line disconnection in the current supply, the roller sunblind remains in its position at that time.
- Fault code entry in Body Domain Controller (BDC)

## Function check of the component

A function check of the power window switch and buttons for the roller sunblinds can be performed by the diagnosis system.

We can assume no liability for printing errors or inaccuracies in this document and reserve the right to introduce technical modifications at any time.