





Product Range Overview: Switch Actuators


ABB STOTZ-KONTAKT offers its partners a comprehensive and fully compatible range of switch actuators designed for distribution board mounting. In total, eight universally employable devices are available, offering exceptional flexibility and functionality.


The switch actuators require no additional power supply for operation. In the event of an EIB bus voltage failure or a power-up condition, the actuators can be configured to automatically switch load circuits on or off, e.g., for functional/emergency lighting or energy savings purposes.

 The switch actuators are used for switching loads via ABB i-bus® EIB. The range extends from 2-fold to 8-fold devices, with switching capacities of 4, 10 or 16 A.

 The switch actuators AT/S 4.16.1, 4.16.5 and 8.16.5 all possess switch position indicators displaying the outputs state of the contacts. Manual operation is also possible at any time, even with no EIB bus voltage present.

 Load circuit connection is made using screw terminals. Connection to the EIB is made via bus connection terminal on the front of the devices.
 A quick, easy and safe installation is thus guaranteed.

 The AT/S 4.16.5 and 8.16.5 actuators are particularly suited for switching loads with high switch-on current peaks, such as, fluorescent lighting with parallel compensated or electronic ballasts.

 1.1.12 The standardised ABB ProM design eases montage and ensures for harmony in the distribution board. All devices possess a label carrier for clear labelling.

Technical Data

	AT/S 2.6.5	AT/S 4.6.2	AT/S 6.6.1	AT/S 8.10.1	AT/S 8.4.1	AT/S 4.16.1	AT/S 4.16.5	AT/S 8.16.5
General								
Power supply	ABB i-bus® EIB							
Operational and display elements	LED red and push button for assigning the physical address					LED red, push button and switch position indicators		
Protection class	IP 20, in accordance with EN 60 529							
Operating temperature range	– 5°C ... 45°C							
Outputs								
Number of potential-free contacts	2	4	6	8	8	4	4	8
Minimum switching current at								
5 V	100 mA					480 mA		
10 V	10 mA					240 mA		
24 V	1 mA					100 mA		
Maximum switching current at								
230 V AC	10 A / AC1 6 A / AC3				4 A / AC1 4 A / AC3	16 A / AC1 10 A / AC3	16 A / AC1 16 A / AC3	
400 V AC	6 A / AC1				4 A / AC1	10 A / AC1	10 A / AC1 6 A / AC3	
Connection								
Load circuit	Screw terminals Cable cross-section: 0.2...2.5 mm ² multi-core, 0.2...4.0 mm ² single-core							
ABB i-bus® EIB	Bus connection terminal							
Installation								
Mounting	on 35 mm mounting rail, DIN EN 50 022							
Dimensions (H x W x D mm)	90 x 36 x 64	90 x 72 x 64	90 x 144 x 64		90 x 72 x 64		90 x 144 x 64	
Mounting width (1 module = 18 mm)	2 modules	4 modules	8 modules		4 modules		8 modules	

Lighting load (per output)

	AT/S 2.6.5	AT/S 4.6.2	AT/S 6.6.1	AT/S 8.10.1	AT/S 8.4.1	AT/S 4.16.1	AT/S 4.16.5	AT/S 8.16.5
Max. lighting load per output								
Incandescent bulbs		1200 W			920 W	2500 W		3680 W
Fluorescent lamps uncompensated		800 W			800 W	2500 W		3680 W
Fluorescent lamps parallel compensated		800 W			800 W	1300 W		2500 W
Fluorescent lamps duo-connection		800 W			800 W	2500 W		3680 W
NV halogen lamps inductive transformers		500 VA			500 VA	500 VA		2000 VA
NV halogen lamps electronic transformers		1000 W			920 W	1500 W		2000 W
Halogen lamps (230 V AC)		1000 W			920 W	2500 W		3680 W
Dulux lamps (energy saving lamps) uncompensated		800 W			800 W	1600 W		3680 W
Dulux lamps (energy saving lamps) parallel compen.		800 W			800 W	1100 W		3000 W
Mercury vapour lamps		1000 W			920 W	2000 W		3680 W
Soduim vapour lamps		1000 W			920 W	2000 W		3680 W
Maximum capacitive load μ F for parallel compensated loads		35			35	70		200
Electronic ballasts								
18 W			15				18 *	
36 W			15				18 *	
58 W			10				18 *	

*limited by the circuit protection device, e.g. B16 MCB

Application Software

For each switch actuator one or more application programs are available allowing numerous different switching functions to be realised.

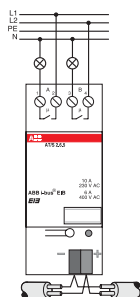
The multitude of functions provided by the various application programs allows the correct selection of the ABB switch actuator for each installation application.

The following functions can be implemented using the parameter settings in the EIB Tool Software (ETS2):

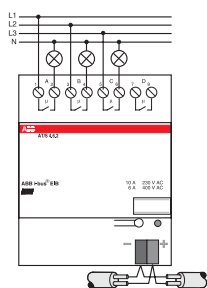
Application Programs	Switch Logic Default	Switch Status Default	Switch Default Time	Switch Default Staircase	Switch Priority Status Default	Switch Status Logic Time	Switch Logic Default Time	Switch Logic Default Staircase	Switch Logic Status Default	Switch Priority Status Default	Switch Status Default Staircase	Switch Default Staircase
Switch actuator AT/S	6.6.1				2.6.5 8.4.1 8.10.1 8.16.5			4.6.2 4.16.1 4.16.5				
Function												
Switch function												
On / Off switching	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
On / Off switching delay			✓			✓	✓					
Staircase lighting function				✓		✓		✓			✓	✓
Inversion of the outputs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Active switching confirmation		✓			✓	✓			✓	✓	✓	
Logical connection												
Logic AND function	✓					✓	✓	✓	✓			
Logic OR function	✓					✓	✓	✓	✓			
Priority object					✓					✓		
Selection of default position												
on bus voltage failure	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
on bus voltage recovery						✓						

Connection Diagrams:

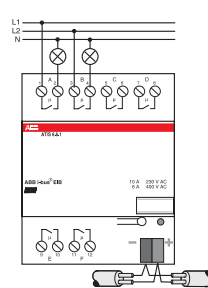
AT/S 2.6.5



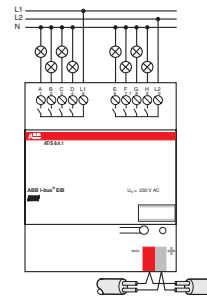
AT/S 4.6.2



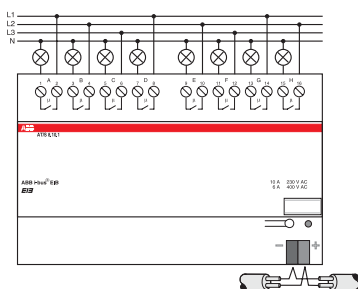
AT/S 6.6.1



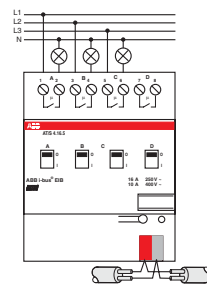
AT/S 8.4.1



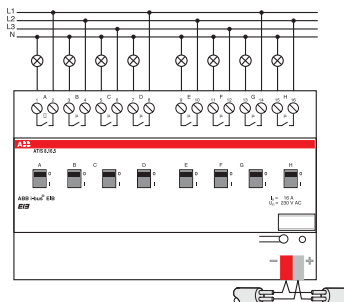
AT/S 8.10.1



AT/S 4.16.1, 4.16.5



AT/S 8.16.5



Selection Table

Description	Ordering information		bbn 40 16779 EAN	Price group	Unit price €	Unit weight in kg	Packing unit
	Short code	Product no.					
Switch Actuator, 2-fold, 6 A	AT/S 2.6.5	GH Q631 0042 R0111	49070 2	26		0.16	1
Switch Actuator, 4-fold, 6 A	AT/S 4.6.2	GH Q631 0033 R0111	45570 1	26		0.22	1
Switch Actuator, 4-fold, 16 A	AT/S 4.16.1	GH Q631 0021 R0111	25360 4	26		0.24	1
Switch Actuator, 4-fold, 16 A, C load	AT/S 4.16.5	GH Q631 0028 R0111	35650 3	26		0.30	1
Switch Actuator, 6-fold, 6 A	AT/S 6.6.1	GH Q631 0023 R0111	25880 7	26		0.24	1
Switch Actuator, 8-fold, 4 A	AT/S 8.4.1	GH Q631 0041 R0111	49010 8	26		0.25	1
Switch Actuator, 8-fold, 10 A	AT/S 8.10.1	GH Q631 0075 R0111	57109 8	26		0.6	1
Switch Actuator, 8-fold, 16 A, C load	AT/S 8.16.5	GH Q631 0047 R0111	50837 7	26		0.6	1



The information in this leaflet is subject to change without further notice.

Your EIB-Partner