

## Product Information

### General notes

The indicators, illuminated pushbuttons, selector-, keylock switches or emergency-stop switches with spray-water protection at the front (IP 65) are modular and consist of an actuator and switching element. In addition to the standard switching elements (gold-plated silver contact or silver contact with universal soldering terminals), forced-opening, slow-make switching elements with gold or silver contacts with soldering terminals are available. EAO can also offer screw terminals on its slow make elements. Switching elements with soldering terminals can also be fitted with flat receptacle 2.8 x 0.5 mm.

The front dimensions of the units in this series are 24 x 24 mm, 24 mm dia., 18 x 24 mm, 18 x 18 mm or 18 mm dia. For flush mounting the dimensions 25 mm dia., 24 x 30 mm or 24 x 24 mm can be supplied.

### Mounting

All switch actuators are mounted from the front by pushing them through the mounting hole in the front panel. They are then fixed from the back with a fixing nut and the mounting tool Typ-Nr. 01-907. Max. tightening torque 50 Ncm.

The preassembled switching element with the connecting wires in a single plane can be clipped on afterwards. A range of assembly and service tools are available.

PCB mounting adaptors are available for universal solder terminal switching elements.

All raised profile actuators are provided with an anti-twist device.

### Lenses

The flat or concave lenses are available in various colours and a transparent or translucent version. The lens surface is non-reflecting (mat). Round lenses for devices 24 mm dia. or 25 mm dia. can also be supplied in aluminium.

Anodized aluminium parts can have visible variations due production-technical reasons.

### Marking

For further information about engraving, hot stamping and film inserts see part Marking.

### Illumination

T1 <sup>3</sup>/<sub>4</sub> midget groove LED's in red, blue, green, yellow and white or filament lamps give superb illumination and can be supplied in 6, 12, 24, or 48 V.

Luminosity and wave length scattering caused by the technology used in the LED manufacturing processes may lead to visual differences in our products.

### Position indication

The status of a maintained action switch can be determined by the position of the lens.

### Keylock switch

Standard lock (Index D). Standard lock number is 311. If the lock number is not specified, we will supply standard number 311.

An additional 134 special locks (Index X) are available on request.

Master keys for lock numbers 311 ... 445 may be ordered by quoting Typ-Nr. 31-989.300. Two keys are supplied with each keylock switch.

Spare keys (Index D) for standard locks may be ordered by quoting Typ-Nr. 31-989.xxx (please state the lock number).

### Emergency-stop pushbutton, foolproof with key to release

KABA safety lock. Standard lock number is 1001. Other lock numbers are available on request. Spare keys for KABA safety lock may be ordered under Typ-Nr. 14-987.xxx (please state the lock number).

## Specimen order

### Indicator :

- Indicator complete, flush mounting, 24 x 24 mm 61-0000.02

### Essential accessories :

- Lens plastic colourless transparent flush, 24 x 24 mm 61-9671.7
- Single-LED T1 <sup>3</sup>/<sub>4</sub> MG, 24 VAC/DC, white diffuse 10-2J12.1069
- Front bezel set for Indicator, flush mounting, plastic black, 24 x 24 mm 61-9930.0


*We reserve the right to modify technical data*

*All dimensions in mm*

## Front

## Lens plastic, raised mounting


mat

	Lens	⌀ 24 x 24 mm Typ-Nr.	⌀ 18 x 18 mm Typ-Nr.	⌀ 18 x 24 mm Typ-Nr.	Ø 24 mm Typ-Nr.	Ø 18 mm Typ-Nr.	
<b>Lens plastic, raised mounting</b> flush, illuminative	blue transparent	61-9351.6	61-9321.6	61-9331.6	61-9642.6	61-9311.6	0.002
	colourless transparent	61-9351.7	61-9321.7	61-9331.7	61-9642.7	61-9311.7	0.002
	green transparent	61-9351.5	61-9321.5	61-9331.5	61-9642.5	61-9311.5	0.002
	orange transparent	61-9351.3	61-9321.3	61-9331.3	61-9642.3	61-9311.3	0.002
	red transparent	61-9351.2	61-9321.2	61-9331.2	61-9642.2	61-9311.2	0.002
	smoked transparent	61-9351.1	61-9321.1	61-9331.1	61-9642.1	61-9311.1	0.002
	yellow transparent	61-9351.4	61-9321.4	61-9331.4	61-9642.4	61-9311.4	0.002
flush, non-illuminative	black opaque	61-9251.0	61-9221.0	61-9231.0		61-9211.0	0.002
	grey opaque	61-9251.8	61-9221.8	61-9231.8		61-9211.8	0.002
	white translucent	61-9251.9	61-9221.9	61-9231.9		61-9211.9	0.002
concave, illuminative	blue transparent		61-9326.6	61-9336.6			0.002
	colourless transparent		61-9326.7	61-9336.7			0.002
	green transparent		61-9326.5	61-9336.5			0.002
	orange transparent		61-9326.3	61-9336.3			0.002
	red transparent		61-9326.2	61-9336.2			0.002
	yellow transparent		61-9326.4	61-9336.4			0.002
concave, non-illuminative	black opaque		61-9226.0	61-9236.0			0.002
	grey opaque		61-9226.8	61-9236.8			0.002
	white translucent		61-9226.9	61-9236.9			0.002



## Lens plastic, flush mounting

mat

	Lens	⌀ 24 x 24 mm Typ-Nr.	⌀ 24 x 30 mm Typ-Nr.	Ø 25 mm Typ-Nr.	
<b>Lens plastic, flush mounting</b> illuminative	blue transparent flush	61-9671.6	61-9681.6	61-9642.6	0.002
	colourless transparent flush	61-9671.7	61-9681.7	61-9642.7	0.002
	green transparent flush	61-9671.5	61-9681.5	61-9642.5	0.002
	orange transparent flush	61-9671.3	61-9681.3	61-9642.3	0.002
	red transparent flush	61-9671.2	61-9681.2	61-9642.2	0.002
	smoked transparent flush	61-9671.1	61-9681.1	61-9642.1	0.002
	yellow transparent flush	61-9671.4	61-9681.4	61-9642.4	0.002
non-illuminative	black opaque flush	61-9771.0	61-9781.0		0.002
	grey opaque flush	61-9771.8	61-9781.8		0.002
	white translucent flush	61-9771.9	61-9781.9		0.002

