

Series 8 8 Robust and attractive.

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Series 82

Robust and attractive.

With Series 82, EAO offers the optimal pushbutton for vandal-resistant, stylish HMI controls used in harsh industrial environments, public areas and building management.

EAO, the expert and partner for Human Machine Interfaces (HMIs), offers pushbuttons that are both resistant to vandalism and visually attractive in the form of the Series 82, for use in harsh environments.

With their robust stainless steel, brass or anodised aluminium housings, these innovatively designed switches are protected to IK10 impact resistance and IP67 sealing requirements, which makes them ideal for use in exposed public buildings and areas.

The switches are available with momentary or maintained action, and with or without LED illumination, choose from single or bi-colour LED's and central dot or ring illumination. The ring illumination is particularly striking and attractive.

The switching elements are offered either with silver alloyed or in addition gold-plated contacts for reliably switching low voltages and currents.

Typical applications

- Exposed public areas
 e.g. ticketing and vending machines
- Industrial Machinery and factory equipment
- Lifting and moving Elevators and people movers
- Building management Access control and security systems
- · Audio and video equipment
- Medical equipment

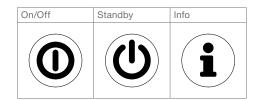
Laser Markings

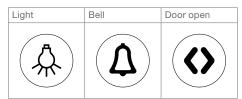
Using a CO² laser it is possible to engrave practically any symbol or text in any language onto the stainless steel versions of the Series 82 products.

Laser markings are highly resilient, do not fade and last for an extraordinarily long time – ideal conditions for these vandal resistant indicators, pushbuttons and illuminated pushbuttons.

Standard symbols

Various standard symbols are available. Here are a number of examples:





Advantages.

- Vandal-resistant: Impact resistant to IK10, front protection up to IP67
- Gold-plated silver contacts available for low voltages and currents
- Optional single or bi-colour LED illumination and laser markings
- Excellent tactile feedback
- Long service life: >1 million cycles of operation

Materials

- Stainless steel SUS 304
- Stainless steel chrome coloured
- Brass gold coloured
- · Aluminium (natural anodised), other colours on request

Mechanical characteristics

- Mechanical lifetime: > 1 million cycles of operation
- Actuation force: 4 N to 7 N
- Terminals: Soldering/plug-in terminals 2.8 x 0.5 mm or screw terminal

Operating data switching element*

Silver Contacts

	Minimum Values	Maximum Values
Voltage	17 VAC/DC	240 V
Current	50 mA AC/DC	3 A

Gold plated Silver Contacts

	Minimum Values	Maximum Values
Voltage	1 VAC/DC	24 V
Current	5 mA AC/DC	200 mA

* according to DIN EN 60947-5-4, methods of assessing the performance of low-voltage contacts.

For specifications of the minimal switching capacity see details in the online catalogue.

Switching system

- Switching element: Snap-action switching element
- · Contact arrangement: NO/NC contact (changeover)
- · Switching action: Momentary or maintained
- · Contact materials: Silver alloy or gold-plated silver alloy

Switching element

- Contact resistance: \leq 50 m Ω , according to IEC 60512-2
- Isolation resistance: > 1000 M Ω , according to IEC 60512-3
- Dielectric strength: 1500 VAC, according to IEC 60947-5

Wiring diagram

Pushbutton

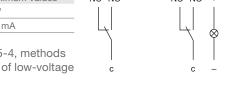
NC NO



Illuminated



Indicator





Properties and illuminations.

Electrical characteristics

- Rated insulation voltage 250 VAC
- Conventional thermal current:
 I_{TH} 5A, according to CB
- Electrical life: >50000 cycles (full load)
- Switching capacity: AC-15 (cosφ0.3) and DC-13 (according to IEC 60947-5-1)

	24 V	110 V	220 V
AC-15	1.0 A	1.0 A	0.5 A
DC-13	0.7 A	0.2A	0.1 A

Ambient conditions

- Temperature
- Storage temperature -40 °C to +80 °C
- Operating temperature -30 °C to +70 °C
- Operating humidity: 45 % to 85 % RH (no condensation)
- Front protection:
 IP65, IP67, according IEC 60529
- Impact resistance: IK10, according to IEC 62262
- Approvals: CE, CB, UL, C UL, CCC

LED illumination

- Red
- Green
- Yellow
- Blue
- White
- Red/green bi-colour

LED, series resistor and polarity protection are built in.

Single LED

Voltage	Tolerance	Current
6VAC/DC	± 10 %	7 mA
12 VAC/DC	± 10 %	7 mA
24 VAC/DC	± 10 %	7 mA
110 VAC	± 10 %	2 mA
230 VAC	±10%	1.5 mA

Bi-colour LED

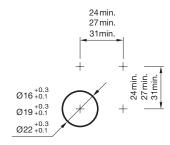
Voltage	Tolerance	Current
24 VDC	±10%	7mA/7mA



Dimensions, mounting and terminals.

Mounting cut-outs

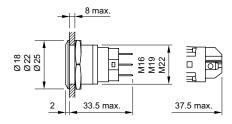
Ø 16 mm, Ø 19 mm, Ø 22 mm



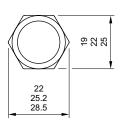
Dimensions

Side view

Solder/plug-in terminal | Screw terminal

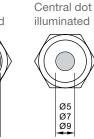


Non-illuminated



Ring illuminated Ø13.5

Ø16.3 Ø18.3



Solder/plug-in terminal

Pushbutton Illuminated pushbutton







Screw terminal

Pushbutton





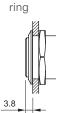
Illuminated

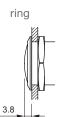
Indicator

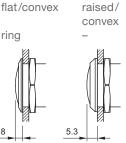


Front ring | Lens | Illumination flat/flush flat/raised









Reliable assembly. Short delivery times.

Thanks to our international production sites and our global delivery and support centres, we offer you efficient, sustainable logistics and can optimise your supply chain.

With four value-creating partners in Europe, Asia and North America, as well as other strong partnerships around the world, we are able to offer the following:

- Qualified vendors worldwide
- Consistent multi-location processes
- Integrated quality measures throughout the supply chain

To us, speedy assembly, short delivery times and secure processing are all part of good customer service.

Part number system

Series	-	Dia	ameter	Material Bezel/Lens		zel/Lens	Connection/ SE Contacts			Switching action		Illuminati-		LED		LED voltage		Laser E	Engraving	
								SE	SE Contacts		action		OH		Colour					
82		4	16mm	1	Stainless steel	5	flush/ flat	1	Solder/ Silver		0	Indica- tor	0	no LED	0	no LED	0	no LED	B001	On/Off
		5	19mm	2	Chrome colour	6	flush/ raised flat	2	Srew/ Silver		1	Momen- tary	1	Ring	1	red	2	6VAC/DC	B002	Stand By
		6	22 mm	3	Gold colour	7	flush/ convex	3	Solder/ Gold plated		2	Main- tained	2	Dot	2	blue	3	12 VAC/ DC	B003	Light
				5	Alumi- nium natural anodized	8	raised/ convex	4	Screw/ Gold plated						3	green	4	24 VAC/ DC	B004	Information
										J					4	yellow	5	110 VAC	B005	Bell
															5	white	6	230 VAC	B006	Door open
															А	red/ green bi-colour			BXXX	Any other symbol

Expert manufacturers. EAO creates possibilities since 1947.



Founding year: 1947 Number of employees: 600 Headquarters: Olten, Switzerland Manufacturing Companies: Switzerland, Germany, North America, China

Sales Companies: 10 Distribution countries: 50

Core markets: Transportation, Automotive, Heavy Duty & Special Vehicles, Machinery EAO AG, a Swiss, family-owned company founded in 1947, has developed into one of the world's leading manufacturers of high-quality industrial switches, complete custom HMI panels and interface systems, and specialised automotive switch systems.

Efficient and modern development processes, effective global supply chains and skilled project and consultation management represent additional services that we offer our customers and business partners around the world.

Your solution-focused expert and partner

We do much more than just manufacture individual control elements. As a solution-focused partner, we provide the option of technically and mechanically customizing existing HMI Components in line with our customers' individual requirements. From simple control elements through to sophisticated HMI Systems, from serial production through to installation – we offer the entire range of HMI services and inspire the confidence of our customers.

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ПОСТАВКА ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

многоканальный

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Данный компонент на территории Российской Федерации Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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