Leuze electronic

the sensor people

ПРОМЭЛЕКТРОНИКА / sales@prom-elec.com

SMART
SENSOR
BUSINESS

SIGNAL LAMPS AND ACOUSTIC INDICATORS

Extensive product portfolio for state indication

www.leuze.com

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ALWAYS KNOW EXACTLY WHAT'S HAPPENING

A professional visualization and state indication system enables process optimization and increased efficiency.

INCREASE SAFETY, PRODUCTIVITY AND AVAILABILITY

A wide range of the latest LED signal lamps and acoustic indicators round out our offerings for reliable industrial automation. Visualization and state indication are essential for successful process optimization as well as for sustainable increases in efficiency.

Our solutions can …

- Reduce reaction times and warn of emergency situations in advance
- Increase machine availability and avoid system downtime
- Check on complex processes and minimize monitoring times

ONE THING IS IMPORTANT HERE — MAXIMUM RELIABILITY

Regardless of whether visual or acoustic signaler, anyone who uses such devices is counting 100% on their functional reliability. Our solutions are therefore equipped with an especially long-lasting technology that ensures a service life of up to 100,000 hours. The shock-resistant plastic, the high degree of protection of up to IP 66 as well as a temperature range from -30 °C to 60 °C also guarantee reliable operation, even in demanding environments. The consistent use of especially energy-saving, bright LED technology also sets standards in the areas of ecology and economy.

*easy*handling.

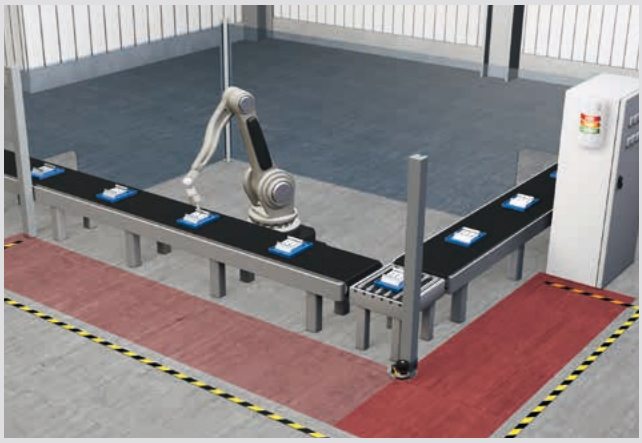
- Ready-made column versions
- Simple mounting and connection of the modular columns via bayonet lock
- Standard M22 mounting for all built-in types
- Split and multicolor optical signalers in one housing

*think*modular.

- Modular, individual configuration of the signalers as 40 mm or 70 mm column; can also be combined on request with sound module
- Single- and multicolor built-in lamps with various diameters 30 / 45 / 65 mm
- Optical, acoustic and combined signalers

Optical status indicator in the area of protective door monitoring

Optical signaler for wall mounting for the visualization of a safety area



THE RIGHT SOLUTION FOR EVERY APPLICATION

Our wide product range of signaling columns and signalers with or without sound module covers all requirements.

Signaling columns
Ready-made C3 / modular E4 and E7

	C3	E4	E7
Lenses Ø	30 mm	40 mm	70 mm
Signaling	Continuous LED light	Continuous or flashing LED light, combinable with acoustic indicator	
Colors	Fixed: red, orange, green	Selectable: red, clear, green, orange, blue, yellow	
Voltage	24 V AC / DC, ±10 %		
Current consumption	0.090 A	0.027 A to 0.039 A	0.051 A to 0.092 A
Degree of protection	IP 65	IP 66	
Connection	Standard UL cable, yellow, 1 m, open ends	Terminal	

Ready-made C3
- Slim column with 3 LED modules
- No assembly, fast mounting
- Delivery incl. 1 m cable, open ends

Modular E4 and E7
- Flexible configuration and mounting
- Mounting bracket for wall, post and horizontal mounting
- Vertical mounting: up to 5 modules
- Horizontal mounting: 2-sided, up to 10 modules
- Optional sound modules with the same high degree of protection

Signalers for wall mounting
EMS and FBA / D9 wall lamp

	EMS siren	FBA signal lamp	D9 wall lamp
Dimension	94 x 94 x 97 mm		90 x 194 x 45 mm
Signaling	Various sound types	Continuous or flashing LED light	Continuous LED light, continuous or pulsed tone
Colors	Housing: red	Selectable: red, orange	Fixed: red, orange, green
Voltage	24 V AC / DC, ±10 % or 230 / 240 V AC		24 V AC / DC, ±10 %
Current consumption	0.022 A or 0.120 A	0.06 A or 0.110 A	0.194 A
Degree of protection	IP 66		IP 65
Connection	Terminal		

EMS alarm indicator
- Sound chart (32 sounds) includes standardized signal sounds for, e.g., fire alarm
- Volume adjustable via potentiometer, max. 113 dB

FBA single lamp for rough environments
- Bright, vibration-resistant, shock-resistant
- Also suitable for outdoor use

Individual solutions through combination of EMS and FBA
- Can be mechanically combined by means of mounting kit
- Also suitable for a traffic-light-type solution

D9 wall lamp in refined design
- Complete 3-color, semicircular signal lamp with sound module in gray housing for wall mounting
- Adjustable sound pressure 70 – 90 dB
- 180° visibility

Signalers for built-in mounting
Built-in elements for M22 P series

	PDS	PDV	PDW	PBZ	PDSBZ
Diameter	30, 45, 65 mm		65 mm	30 mm	45, 65 mm
Signaling	Continuous or flashing LED light	Continuous LED light		Continuous or pulsed tone	Continuous or flashing LED light, continuous or pulsed tone
Colors	Selectable: red, clear, green, orange, blue, yellow	Fixed: red, green	Fixed: red, green, yellow	–	Red, orange
Display of the lens color	Single-color, entire lens	Split, half lens	3-color, entire lens	–	Single-color, entire lens
Voltage	24 V AC / DC, ±10 %				
Current consumption	0.026 A / 0.037 A / 0.060 A	0.030 A / 0.039 A / 0.044 A	0.043 A	0.046 A	0.047 A / 0.058 A
Degree of protection	IP 65				
Connection	Removable terminal		Pre-wired	Removable terminal	

Optical, acoustic and combined M22 built-in elements

- Two or more states in one element
- Simple connection through removable terminal
- Continuous or flashing light selectable through connection (PDS and PDSBZ)

Signaling of the muting state
MS muting lamps

	MS 70	MS 851
Lens Ø	70 mm	56 mm
Signaling	LED or incandescent lamp	Incandescent lamp E14
Colors	Clear, yellow	Clear
Voltage	MS70 24 V DC, ± 20 % or MS 851 4 W / 24 V	
Current consumption	0.060 A	0.166 A
Degree of protection	IP 65	IP 54
Connection	Terminal	

Reliable signaling of the muting state

- Long-lasting and reliable LED muting lamp
- High redundancy through 6 LED strands connected in parallel
- Current monitoring possible
- e.g., as accessory for Leuze electronic safety light curtains or protective sensors

SIGNALING EXACTLY AS YOU NEED IT

Three simple steps for a custom signaling column

1 SELECT A TYPE OF MOUNTING

All bracket variants are available with a diameter of 40 mm or 70 mm.

MP1
- Horizontal mounting
- Length 100 / 250 / 400 mm
- Up to 5 modules

MH1
- Horizontal mounting
- Interior screw fitting
- Up to 5 modules

MW1
- Vertical mounting
- 1-sided mounting
- Up to 5 modules

MW2
- Vertical mounting
- 2-sided mounting
- Up to 10 modules

2 SELECT THE NUMBER AND COLOR OF LENSES

All lens models are available in diameters of 40 mm or 70 mm.

E4 / E7-DS – continuous LED light

E4 / E7-DB – flashing LED light

3 SELECT AN OPTIONAL SOUND MODULE

Sound module variants are available for E4 with a diameter of 40 mm and for E7 with a diameter of 70 mm.

E4-BZ1

E7-BZ1

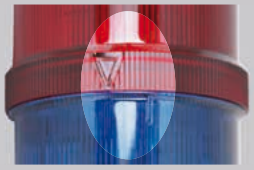
BAYONET LOCK

- Combine the modules without tools
- Electrical through-connection without manual wiring
- Discrete markings

Mount

Rotate

Connected



OUR PROMISE TO YOU

SMARTER **PRODUCT USABILITY**

With regard to our product developments, we systematically place emphasis on the especially good usability of all devices. To this end, simple mounting and alignment are taken into account — just as the uncomplicated integrability of the sensors in existing field bus systems and easy configuration, e.g. via a web browser, are.

SMARTER **APPLICATION KNOW-HOW**

Whoever can do it all, can do nothing right. Which is why we concentrate on selected target sectors and applications. We are specialists and know all aspects inside out. For this purpose, we optimize our solutions and offer a comprehensive product range that makes it possible for our customers to obtain the absolute best solutions from a single source.

SMARTER **CUSTOMER SERVICE**

The technical and personal closeness to our customers, and a skilled, straightforward handling of queries and problems, are among our strengths — and will remain so. Consequently, we will continue to expand our service offerings and, indeed, also forge ahead in new directions to persistently redefine the utmost in customer service. Whether on the phone, in the Internet or on-site with our customers — regardless of when and where the expertise of the sensor people is needed at any time.

Info at: **www.leuze.com**

Katrin Rieker,
Sales Methods, Processes, Tools

Switching Sensors
Optical Sensors
Ultrasonic Sensors
Fiber Optic Sensors
Inductive Switches
Forked Sensors
Light Curtains
Special Sensors

Measuring Sensors
Distance Sensors
Sensors for Positioning
3D Sensors
Light Curtains
Forked Sensors

Products for Safety at Work
Optoelectronic Safety Sensors
Safe Locking Devices, Switches and Proximity Sensors
Safe Control Components
Machine Safety Services

Identification
Bar Code Identification
2D-Code Identification
RF Identification

Data Transmission / Control Components
MA Modular Connection Units
Data Transmission
Safe Control Components
Signaling Devices
Connection Technology and Passive Distributors

Industrial Image Processing
Light Section Sensors
Smart Camera

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en 01-2015/11 50132132
Subject to modifications and errors