



NEUMÜLLER
ELEKTRONIK GMBH

SIGNAL TECHNOLOGY

Optical and Acoustic

Neumüller Elektronik GmbH

Tradition meets Innovation

WHO WE ARE

Since our founding in 1952, we have stood for comprehensive product knowledge and in-depth technical expertise. As a market- and innovation-oriented design-in distributor, we can look back on over 70 years of tradition and are now one of the leading partners in the industrial and lighting sector.

With our headquarters in Weisendorf and our locations in Ahrensburg, Berlin, Dortmund and Munich, we ensure direct customer proximity. This regional presence enables us to respond quickly and flexibly to all relevant market changes at any time.



Headquarters:
WEISENDORF



Branch office:
AHRENSBURG



Offices:
BERLIN, DORTMUND, MUNICH

WHAT WE DO

We offer more than electronic components — we deliver tailor-made systems and comprehensive solutions. As a globally connected company, we partner exclusively with renowned manufacturers, ensuring you direct access to cutting-edge technology and deep industry expertise.



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OUR AIM IS TO THINK OUTSIDE THE BOX:

we support you with in-depth design-in expertise and technical support from the initial idea to implementation.



Signal Technology

for safe and clear communication
in industrial applications

Signal technology plays a central role in the safe and reliable communication of statuses, warning signals and processes in industrial applications. As an important component of modern systems, it enables clear visual and acoustic signalling and thus makes a significant contribution to operational safety and efficiency.

The product range includes a wide variety of solutions – from acoustic signalling devices such as buzzers, horns and sirens to optical signalling elements such as signal lights, flashing and rotating beacons, as well as signal towers. The portfolio is complemented by combined signalling devices and electro-acoustic components that can be flexibly integrated into a wide range of applications.

The requirements for signal technology are continuously increasing: In addition to robustness and reliability, energy efficiency, compact designs and adaptability to specific applications are becoming increasingly important. Thanks to modern technologies and a wide range of product variants, customised solutions can be realised for industrial, infrastructure and safety-critical applications.

As an experienced partner, Neumüller Elektronik supports customers in selecting suitable components and provides comprehensive design-in support – from the initial idea through to optimal integration into the respective application.

MANUFACTURERS

of reliable signalling technology

Compro GmbH offers standards-compliant acoustic, optical and combined signalling devices such as sirens, signal horns, flashing beacons and signal towers for reliable safety solutions in industrial and public areas.



For over 50 years, **Digisound** has offered a wide range of standardised and customised electro-acoustic signal devices, including speakers, buzzers and reversing alarms for diagnostic equipment, vehicles and industrial systems.



Since 1996, **KEPO Electronics** has developed and manufactured innovative HMI components and modules for intelligent vehicle cabins, autonomous driving, and AI and IoT applications, including acoustic, optical and haptic systems, sensors, 3D camera modules and inductive charging solutions.



Sounders

Targeted warnings through audible signals

Sounders provide targeted warnings and status indication through audible signals. They generate different types of tones, such as continuous, pulsed or alarm tones. Depending on the design, they can operate independently or be externally controlled. They are used wherever audible attention is required and are a key component of industrial safety and signalling systems.

SOUNDERS | BUZZER

[VIEW PRODUCTS](#)


- Generate simple signal and indication tones
- Available in active or passive versions
- Compact design for device integration
- Low power consumption

Voltage	3 – 24V
Sound Pressure Level	70 – 95 dB
Frequency	2 – 4 kHz
Design/Type	SMD / THT
Typical applications: Control and status signals, household and electronic devices, device error messages, industrial controls	

SOUNDERS | TRANSDUCER

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- Pure sound transducers without an integrated oscillator
- Require external control
- Enable flexible frequency control
- Particularly efficient for microcontroller applications

Voltage	3 – 24V
Sound Pressure Level	75 – 100dB
Frequency	2 – 5kHz
Design/Type	SMD / THT
Typical applications: Embedded systems, industrial electronics, signal and warning systems, custom tone generation	



SOUNDERS | SIRENS

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- Very high sound pressure levels for alarm signalling
- Various tone and alarm patterns possible
- Suitable for indoor and outdoor use
- Often housed in robust enclosures

Voltage	12 24V
Sound Pressure Level	85 – 120 dB
Protection Rating	bis IP65
Signal Types	Dauer-, Puls-, Mehrton
Typical applications: Industrial and building warning systems, fire and hazard detection systems, security and alarm systems, evacuation systems	



Acoustic Components

Voice and Signal Output

Acoustic components convert electrical signals into audible sound and, depending on their design, are based on electrodynamic or piezoelectric principles. In speakers, a diaphragm is set into vibration by electrical signals, creating pressure waves in the air that are perceived as sound. The design is intended for compact integration into electronic devices and enables both voice and signal reproduction.

SPEAKERS

[VIEW PRODUCTS](#)



- Voice and signal output
- Available in miniature and panel-mount versions
- Available with different impedances and power ratings

Sound Pressure Level (SPL)	87 – 92db/10cm
Frequency Range	650 Hz – 10kHz
Power Rating	0,1 – 12W
Resonant Frequency	450 – 900 Hz
Operating Temperature	-40° – +85° C
Typical applications: Voice and status output in machines, intercoms and communication systems, medical devices, household and electronic devices	

Beacons

Visual indication of statuses

Beacons provide visual indication of statuses and warnings. They complement or replace audible signals in noisy or safety-critical environments. Modern LED technology makes them energy-efficient and long-lasting. They enable quick visual recognition of operating statuses and are used in almost all industrial sectors.

BEACONS | STROBE BEACONS

[VIEW PRODUCTS](#)

- Focused light flashes for warning
- High light intensity for good visibility
- LED technology with low power consumption
- Available in various light colours

Voltage Range	10 – 60 VDC
Current Consumption	35 – 220 mA
Protection Rating	IP65
Flash Rate	0,5 – 1Hz
Lens Colours	Gelb Blau Rot Grün Klar
Operating Temperature	-25° ~ +70° C
Typical applications: Machine warnings, safety and fault indications, industrial systems, Building technology	

BEACONS | ROTATING BEACONS

[VIEW PRODUCTS](#)

- 360° visibility through omnidirectional light
- Steady, flashing or rotating mode
- LED technology for long service life
- Suitable for indoor and outdoor use

Voltage Range	12 – 24 VDC
Current Consumption	70 mA
Protection Rating	IP65
Lens Colour	Signalgelb
Operating Temperature	-30° ~ +50° C
Typical applications: Vehicles and construction machinery, industrial and warehouse equipment, warning systems, safety areas	

BEACONS | SIGNAL LAMPS

[VIEW PRODUCTS](#)



- Compact indicator elements for status signals
- Various colours for different statuses
- Steady and flashing light options
- Easy integration into devices

Voltage Range	12 – 24 VDC
Current Consumption	45 – 120 mA
Protection Rating	IP65
Operating Temperature	-25° ~ +70° C
Colours	Rot Gelb Grün Blau Klar
Light Colours	Dauerlicht Blinklicht Blitzlicht
Typical applications: Machine status indication, control cabinets, industrial automation, Control systems	

BEACONS | SIGNAL TOWERS

[VIEW PRODUCTS](#)



- Modular multi-level signal indicators
- Combination of multiple light modules possible
- High visibility over long distances
- Expandable and flexibly configurable
- Diameter 40–70 mm

Voltage Range	12 – 24 VDC
Current Consumption	45 – 120 mA
Protection Rating	IP65
Temperaturbereich	-25° ~ +70° C
Farben	Rot Gelb Grün Blau Klar
Light Colours	Dauerlicht Blinklicht Blitzlicht Doppelblitz Rundumlicht
Typical applications: Production lines, machine monitoring, logistics systems, proc	





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