

Signal requesting device

crossguide EK 533

Safe mobility for pedestrians and the visually impaired with one device

The crossguide is an innovative product with tried and tested properties. All requirements are met by one device. Traffic noise-dependant acoustics are already integrated. It offers protection against vandalism due to its compact and sturdy design. It is not only visually attractive, but also particularly low-maintenance and easy to install. With its tested technology, the crossguide sets new benchmarks for standards-compliant pedestrian requesting devices.

Advantages

Flexibility

- Suitable for all conventional pole diameters
- Universal voltage device, 20-253 V

Stability and reliability

- UV-resistant polycarbonate housing, without adhesive
- High resistance to vandalism, without requiring additional parts
- Temperature-resistant from -25 °C to +60 °C
- Approved by all major signal engineering firms
- Satisfies DIN 32981:2018-06, EN 50293

Easy installation

- Pole installation using screws, without removing the vibrator unit
- Coloured connection wires with assigned functions



Functions

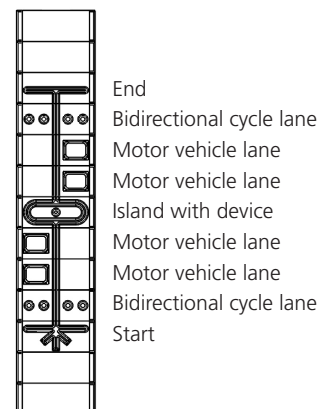
- Signal request optionally via push-button with isolated micro switch with pivot bearing or sensor (dynamic capacitive)
- Tactile release signal for the visually impaired via pulsed vibrating push-button
- All functions can be set without intervention in the control unit via software per USB cable, parametrising adapter or Bluetooth. All settings can be saved and copied. Changes are saved with the user's ID code in the event/error memory.
- Optical feedback with flashing function or continuous light
- Acoustic feedback is possible in the form of an acknowledgement tone or voice announcement; volume can be reduced or switched off at night
- Module slots for subsequent functional extensions
- Can be optionally equipped with gold-cap-buffered real-time clock for, e.g., night-time reduction or deactivation even if the control unit does not provide a signal
- Special functions are included in the device as standard. They are actuated via freely assignable inputs and outputs.



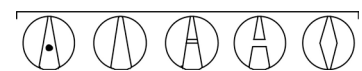
crossguide with tactile relief symbols

Functions for the visually impaired

- Signal request via vibrating push-button on the bottom of the device integrated into the tactile pedestrian crossing symbol
- Tactile pedestrian crossing symbols in accordance with DIN 32981 included in the accessories kit
- Tactile pedestrian crossing signal (via pulsed vibrating push-button) and/or acoustic. Duration individually adjustable.
- Traffic noise-dependent guide signal ("ticking" sound)
- Tactile relief symbols according to ÖNORM V 2100 and V 2101 as accessories kit to indicate the exact conditions of the crossing.
- Compliance with standard DIN 32981 with remote EK 533 acoustic signalling device at a height of 2.1–2.5 m for pedestrian crossing and/or guide signal



Tactile relief symbols



Tactile pedestrian crossing symbols

References

- City of Kiel
- City of Münster
- City of Solingen
- City of Kaiserslautern
- City of Oberhausen
- City of Reutlingen
- City of Böblingen
- City of Dortmund
- City of Augsburg
- City of Darmstadt
- City of Ulm
- City of Krefeld
- City of Detmold
- City of Bochum
- VVD (transport and utilities) Delmenhorst
- City of Innsbruck (Austria)
- City of Graz (Austria)
- City of Salzburg (Austria)
- City of Poznan (Poland)
- City of Wroclaw (Poland)
- City of Warsaw (Poland)
- City of Ljubljana (Slovenia)
- And many more



Technical data

Designation:	Signal requesting device incl. acoustics crossguide EK 533
Nominal operating voltage	Universal voltage: 24 VDC 24 VAC 40 VAC 110V AC 230 VAC
Feedback max. power consumption	0.5 W
Vibration and/or acoustics max. power consumption	0.5 W
Max. power consumption	approx. 7 W
Standards fulfilled	RiLSA; DIN VDE 0832-100, DIN VDE 0832-200, DIN 32981, ÖNORM V 2101
Housing colour	Yellow, similar to RAL 1023, solid coloured
Protection class	II (double-insulated)
Leak test	as per DIN 32981:2018-06
Impact strength	IK10
Max. sensor current load	80 mA
Sensor current draw	< 1 mA
Auxiliary relay for sensor (optional)	230 V, 1 A (additional module)
Safety	SIL 2
Mounting/installation	screw mounting
Operating temperature	-25°C to +60°C
Height / Width / Depth	250 mm / 95 mm / 60 mm (distance from pole)
Acknowledgement sound	Yes, individual sounds
Acoustic crossing signal	<ul style="list-style-type: none"> • All DIN 32981 requirements are met • Elevation adjustment in dB increments
Guide signal	<ul style="list-style-type: none"> • All DIN 32981 requirements are met • Customised settings possible
Green flashing	<ul style="list-style-type: none"> • Acoustics according to flashing mode possible, individually configurable • Doubling of the clock frequency, e.g. from 4 to 8 Hz • other sound

Technical data | Functions

Acoustic cross signal:	<p>Traffic noise-dependent, max. clock frequency up to 8 Hz</p> <ul style="list-style-type: none"> • Volume: approx. 30–90 dB (A) • Selection of the tones via software (standard 880 Hz, frequency range 800–5000 Hz for polyphonic tones, wave files possible) • Maximum and minimum level of approx. 30–90 dB (A), adjustable in increments of 1 dB • Superelevation setting in 1 dB increments depending on the passage width • Customised settings possible
Guide signal:	<p>Traffic noise-dependent (“ticking” noise), frequency freely selectable</p> <ul style="list-style-type: none"> • Volume: approx. 30–90 dB (A) • Selection of the tones via software (frequency range 800–5000 Hz for polyphonic tones, wave files possible) • Maximum and minimum level of approx. 30–90 dB, adjustable in increments of 1 dB • Superelevation fine adjustment of approx. -20 to +20 dB in 1 dB increments • Customised settings possible
Green flashing:	<ul style="list-style-type: none"> • Acoustics according to flashing mode • Doubling of the clock frequency, e.g. from 4 to 8 Hz • Other tone

Accessories

EK 533 acoustic signalling device for pole installation

Release + OT | Green: Order no.: 12 533 0460/000

Release | Green: Order no.: 12 533 0460/010

Release + OT | Grey: Order no.: 12 533 0461/000

Release | Grey: Order no.: 12 533 0461/010

Release + OT | Black: Order no.: 12 533 0462/000

Release | Black: Order no.: 12 533 0462/010

Accessories:

Cross arm | Steel/galvanised: Order no.: 70 085 6650



Acoustic signalling device



Cross arm for pole installation

EK 533 acoustic signalling device for signal chamber

Release + OT | Black: Order no.: 12 533 0462/100

Release | Black: Order no.: 12 533 0462/110



Acoustic signalling device for signal chamber

Connection cable

USB cable: Length 1.80 m (incl. driver)
Order no.: 12 533 0989S

RS 232 cable: Order no.: 12 533 0996

Bluetooth dongle +
Bluetooth stick: Wireless parametrisation of the crossguide
Dongle order number: 12 533 0998
Stick order number: 12 533 0999

Parametrising adapter: Parameter transfer without PC
Order no.: 12 533 0988



Dongle



Bluetooth stick



USB cable



Parametrising adapter

Pole adapters (stainless steel vandalism protection)

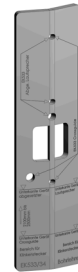
Pole sizes:	Ø 180–300 mm Order no.: 12 533 0992
Wall adapter:	Level surface Order no.: 12 533 0993
Universal pole adapter:	up to Ø 159 mm for threaded holes: Langmatz EK 98, Wai TB, RTB, Urich, Kringe Order no.: 12 533 0994
Universal pole adapter for large poles:	Ø 180–300 mm for threaded holes: Langmatz EK 98, Wai TB, RTB, Urich, Kringe Order no.: 12 533 0995



Pole adapter

Drilling jig

Application:	Attachment to pole using strap fastener or similar (not included in scope of delivery). Drilling of the mounting holes and cable duct for crossguide and EK 533 acoustic signalling device.
Order no.:	700 663 003



Drilling jig

Remote control (netbook)

Windows 10
USB port
Size: (W) 262 x (D) 178 x (H) 25.9–36.6 mm
+ installed software <i>cg Manager</i>
+ USB parametrising cable
Others on request



Netbook

Software *cg Manager*

Compatible with Windows 7, 8, 10 for setting, saving and archiving of the device parameters
Download <i>cgManager</i> langmatz.de/service/kundenservice