

PUSH BUTTON & ACOUSTIC TRAFFIC SIGNAL HEAD

SWARCO FUTURIT is one of the world's leading producers of LED-based signalling and lighting technology. Traffic lights, variable message signs and street lights form the portfolio of energy-efficient, sustainable, long-life products for road safety and traffic control.

System integrators and traffic authorities in more than 70 countries trust SWARCO FUTURIT's outstanding quality made in Austria in production, service and personal consultancy. The award-winning company works with quality and environmental management systems according to EN ISO 9001 and EN ISO 14001. SWARCO FUTURIT is one of the key companies of the international traffic technology corporation SWARCO of Austrian entrepreneur Manfred Swarovski.

www.swarcofuturit.com

SWARCO | FIRST IN TRAFFIC SOLUTIONS.

SWARCO is a growing international group providing the complete range of products, systems, services and solutions for road safety and intelligent traffic management. With almost five decades of experience in the industry, the corporation supports the growing mobility needs of society with turnkey systems and solutions in road marking, urban and interurban traffic control, parking, public transport, infomobility and street lighting. Cooperative systems, V2I communication, electromobility, and integrated software solutions for the Smart City are latest, future-oriented fields in the group's portfolio.

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IMPROVED SAFETY FOR ROAD TRAFFIC

Due to increasing traffic volume it's getting more and more important to protect pedestrians and cyclists at intersections. Therefore SWARCO FUTURIT designed its own push buttons with highly visible LED-displays and reliable information for crossing the street safely.

KEY BENEFITS

- modular construction allows adaption to all kinds of intersections
- one design for the whole city, independent of different functions of each intersection
- no movable parts parts that can be manipulated
- resistant against vandalism due to a strong polycarbonate body with an integrated metal core profile
- laterally applied tactile symbols for describing the crossing for the visually impaired
- localisation of the push button due to acoustic and optical position signal (LED-ring)
- meets all the requirements of current guidelines and regulations (RILSA, DIN 32981, DIN VDE 0832, EN 50293) – tested by TÜV Rheinland
- sound and volume adjustment using an integrated microphone to adhere to local regulations

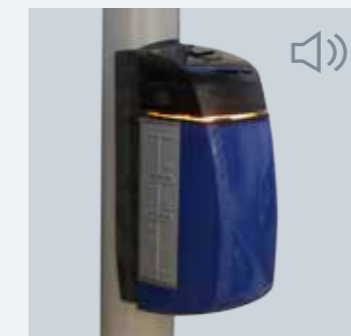
PUSH BUTTON

ONE DESIGN - MULTIPLE FEATURES

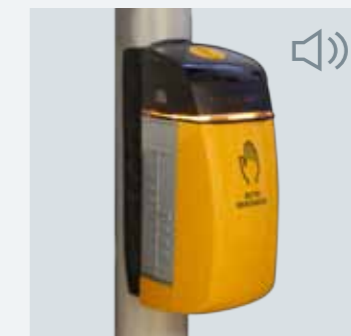
The push buttons TOUCH SOUND, TOUCH SOUND TSE and TOUCH not only meet the needs of road users, they can also be adapted to suit the individual requirements of intersections in a city. They help pedestrians, cyclists and people with visual impairments to cross light-controlled road crossings safely.

Regardless of the various features, the design of the push button always remains the same – one design for the whole city.

VARIANTS



TOUCH SOUND



TOUCH SOUND TSE



TOUCH

All models are available in yellow, blue and black.

PRODUCT OVERVIEW



TOUCH SOUND

- Large range of different volumes and signal sounds: min. 30 dB(A) to max. 90 dB(A)
- All the electronic parts inside the button are in a separate box – this makes startup and maintenance quick and easy
- Infrared interface supports settings, such as volume control, by remote control, without opening the unit



TOUCH SOUND TSE

- Wide range of different volumes and signal sounds: min. 30 dB(A) to max. 90 dB(A)
- All the electronic parts inside the unit are in a separate box – this makes startup and maintenance quick and easy
- Computerized programming – sounds can be set individually



TOUCH

- Only for road users without visual impairments
- All the electronic parts inside the unit are in a separate box – this makes startup and maintenance quick and easy
- Settings by means of DIP switches in the electronics box

FRONT SYMBOLS (EXAMPLES)



HIGH SAFETY CLEAR AND RELIABLE SIGNALING

The SWARCO FUTURIT push buttons are designed to be easy to operate for children too. Clear signaling and reliable information increase safety on pedestrian crossings.



Easy to locate via bright LED-ring and acoustic position signal.



Activation by gentle touch – LED feedback message lights up and acoustic position signal is activated.



Signalization of “green light” – message disappears and the appropriate release signal sounds.



- Direction arrow
- LED confirmation text (L)
- Optical locating signal/
LED ring (L)
- Metal core
- Capacitive sensor (S)
- Relief
- Covered button (C)
- Tactile signal (T)
- Direction arrow



- Microphone (A)
- Acoustics (A)

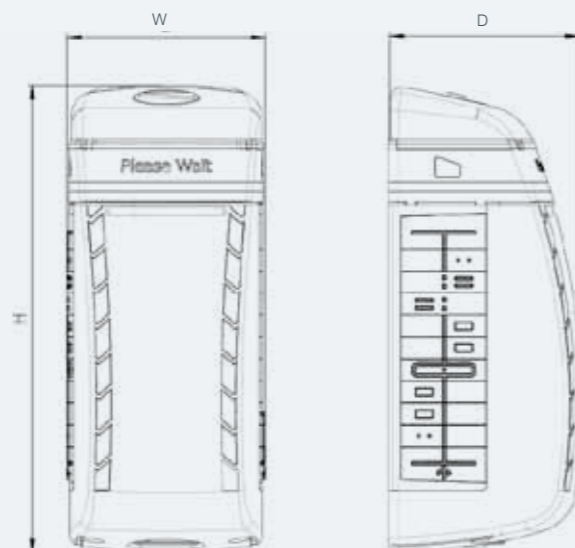
Color combinations

red text / yellow ring
white text / yellow ring
yellow text / white ring

LED confirmation text (info head)

individual messages in different languages,
multilingual display possible

DIMENSIONS



W = 105 mm

H = 254 mm

D = 107 mm



FUNCTIONS

TOUCH SOUND

Type	AS	ASL	ASLC	ASLTC	ATC	AC
A	■	■	■	■	■	■
S	■	■	■	■		
L		■	■	■		
C			■	■	■	■
T				■	■	

A integrated loudspeaker + microphone

S capacitive sensor (no moving parts)

L optical position signal (LED-ring) and LED confirmation text (response frame)

C covered button for visually impaired – arrow shows the direction of the walkway

T Tactile signal in the covered unit (vibration)

TOUCH SOUND TSE

Type	SL	ASL	ASLC	ASLTC
A		■	■	■
S	■	■	■	■
L	■	■	■	■
C			■	■
T				■

TOUCH

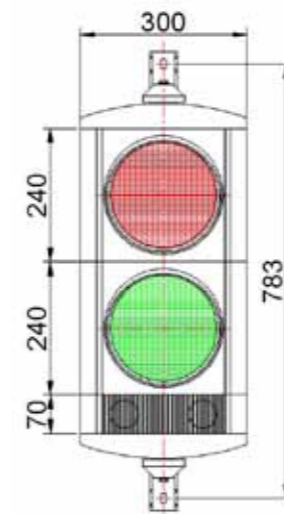
Type	S	SL
A		
S	■	■
L		■
C		
T		



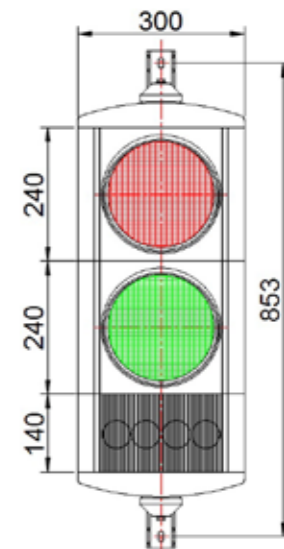
VARIANTS

The functionality of the signal head type ALUSTAR has been extended on pedestrian signal heads (typical size 210 mm) to integrate an acoustic element in the bottom part of the signal head. These acoustic elements are available in two sizes.

Acoustic-Element: 70 mm



Acoustic-Element: 140 mm



ALUSTAR ACOUSTIC

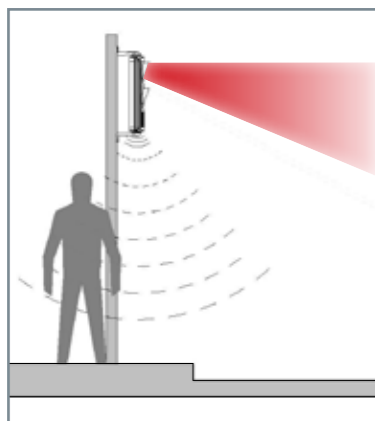
The ALUSTAR ACOUSTIC combines firstclass optical design and performance of an LED traffic signal head with the advantage of an acoustic unit in a single compact product. This innovative solution offers the advantages of improved service and safety to pedestrians at intersections (especially for visually impaired).

KEY BENEFITS

- acoustic unit integrated into the signal head, thus there is no need for external loudspeaker installation
- 4 loudspeakers integrated in the front of the signal head to direct sound into the pedestrian crossing during the green phase
- 2 integrated speakers in the base of the housing which are used for guidance during the red phase

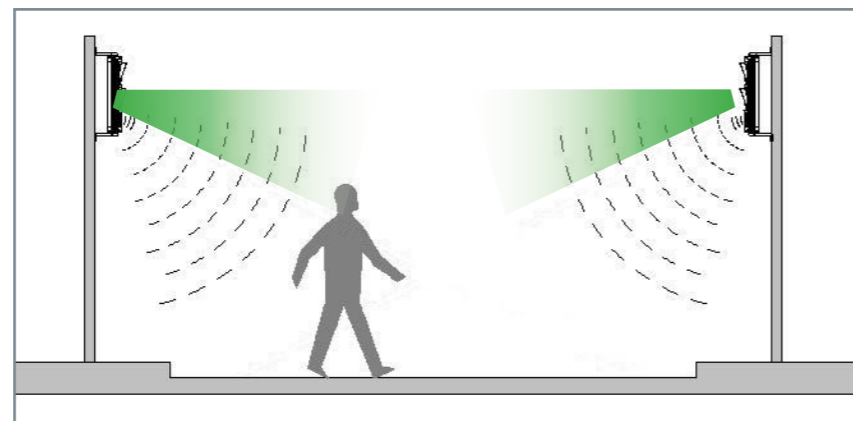
Repeated sounds are generated by an electronic audio generator – Audio frequency depends on the pedestrian signal which is currently used in the local region:

RED phase



Pilot Tone = Audible Orientation Signal during red phase by speakers in the bottom of the signal head

GREEN phase



Clearance Tone = Audible Walk Signal during green phase by speakers in the front of the signal head



Acoustic setting:
Different sounds with DIP-Switch



Acoustic setting:
Different sounds with Infrared-handheld

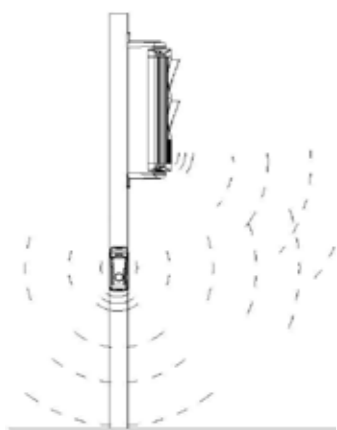
ACOUSTIC UNITS

FOR PUSH BUTTON AND ALUSTAR ACOUSTIC

In the case of wide pedestrian crossings (more than 10 m), additional loudspeakers are prescribed in compliance with specific regional requirements.



ALUSTAR ACOUSTIC

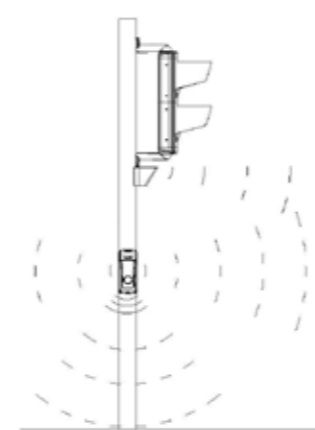


1 aspect (100 mm)

1/2 aspect as an integrated acoustic unit, no external loudspeakers necessary (210 mm) *

* also 1 aspect as an integrated acoustic unit available, no external loudspeakers necessary (210 mm)

TOUCH SOUND with additional loudspeaker



The additional loudspeaker is only separately mounted on the pole in combination with the TOUCH SOUND.

