Signal requesting device EK 424 for pedestrians

Application area

- Light-signal systems with pedestrian request

Technical data

- The multi functional equipment extras of the new signal request device EK 424 provide planning flexibility and cost advantages.
- The signal requesting equipment of the model range EK 424 fulfil the requirements according to RiLSA, DIN 32981 and DIN VDE 0832 standards and offer the following additional advantages:
  - Suitable for all mast diameters
  - high mechanical strength
  - compact construction
  - excellent price/performance ratio

Fig.:
EK 424 with:
- Sensor button
- Visual confirmation
- Symbol: Hand

Safety

- Safety class system II - Protection category IP 54
- Temperature range -25° to +65°C
- Approval from all important signal manufactures

Installation

- Mast assembly with screws
- Universal mast adjustment made of high-grade steel for all popular mast diameters

Construction of the housing

- The equipment is extremely easy to assemble
- High mechanical safety against vandalism

Fig.:
EK 424 side-view

Material

- Housing and lower parts of the devices are made of polycarbonate (PC) the material is solid-coloured
- This material is characterised by the following features:
  - mechanical: high notched impact strength, high bending strength
  - thermal: self-extinguishing UL/V1, endures temperatures from - 40°C to +125°C
  - visual: UV stable
  - electrical: Contact resistance $>10^{16}$ Ωcm DIN 53482 and VDE 0303/T3
  - chemical: resistant to petrol and aliphatic-saturated hydrocarbons

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Functions for pedestrians

Signal request

- Large-surface push button via a potential-free micro switch
- Sensor button

Visual Confirmation (LED technology)

- Window on top and on the side
- Without text
- With text, e.g. waiting for signal

Symbolism

- Hand
- Pedestrian
- Cyclist

Text

- Please press
- Please touch
- Further text and symbols available on request

Signal request by sensor button with dynamic capacitive sensors

- This signal request device uses exclusively capacitive sensors with a dynamic measurement principle
- The crucial advantage: If a change should arise e.g. chewing gum stuck or a coating of ice be present in the sensor`s request area, then after a one-time request by the pedestrian the change is considered as part of the resonant circuit
- The regulating resonant circuit does not trigger a continuous request!

Fig.:
- Large-surface push button
- Display
- Visual confirmation

Fig.:
- Display
- Visual confirmation
- Sensor button

Fig.:
- Sensor button
- Without visual confirmation

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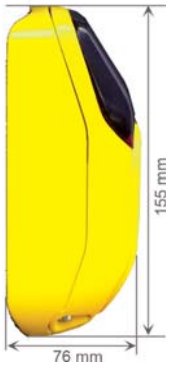
Combination possibilities

- These functions must or can be combined with one another:

EK 424 Version	Sensor	Large-surface push button	LED confirmation	Picture
Model 1	■			
Model 2	■		■	
Model 3		■		
Model 4		■	■	

Dimensions



Operational voltage

- 10 V +technology
- 24 V AC/DC
- 40 V
- 230 V

Colours

- Yellow similar to RAL 1023
- The material (polycarbonate) is solid-coloured, i.e. damage to the surface does not lead to any colour change

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