## Midi / LED/Flash/EVS/Multi-t. sounder 431 LED Siren BM 32 tne 10-48VAC/DC GN



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Part No.: 431.200.70



## MECHANICAL DATA

| Height171 mmDiameter146 mmMaterialsPC<br>PC/ABSDome colourGreenHousing colourBlackProtection categoryIP65ConnectionScrew terminalscross-sectional area maximum1,50mm² / 16AWGCable entryMembrane grommetCable entry maximumd = 13 mmCable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage frequency50HzOperating voltage frequency50HzOperating voltage frequency50HzOperating voltage frequency50HzOperating voltage frequency3OPTICAL DATAImARated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATAELDLight sourceLEDLight sourceLEDLight sourceFlash<br>PermanentService life optical50,000 h maximumACOUSTIC DATAVOCVolume (max) at 1m distance108,0 dB (A) | MECHANICAL DATA              |                           |  |
|---|------------------------------|---------------------------|--|
| MaterialsPC<br>PC/ABSDome colourGreenHousing colourBlackProtection categoryIP65ConnectionScrew terminalscross-sectional area maximum1,50mm² / 16AWGCable entryMembrane grommetCable entry minimumd = 1 mmCable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage typeAC/DCOperating voltage typeAC/DCOperating voltage tolerance+/- 0%Rated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLight sourceLEVSFlash<br>PermanentEVSFlash<br>PermanentPermanentService life optical50,000 h maximum  |                              | 171 mm                    |  |
| PC/ABSDome colourGreenHousing colourBlackProtection categoryIP65ConnectionScrew terminalscross-sectional area maximum1,50mm² / 16AWGCable entryMembrane grommetCable entry minimumd = 1 mmCable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage frequency50HzOperating voltage tolerance+/-0%Rated operational outrage24 VDCRated operational current1 mARated operational current1 mARated operational current1 mARated operational current2 mathPollution degree3OPTICAL DATALEDLight sourceLEDLight sourceEVSFlash<br>PermanentService life optical50,000 h maximum   | Diameter                     | 146 mm                    |  |
| Housing colourBlackProtection categoryIP65ConnectionScrew terminalscross-sectional area maximum1,50mm² / 16AWGCable entryMembrane grommetCable entry minimumd = 1 mmCable entry maximumd = 13 mmCable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage typeAC/DCOperating voltage typeAC/DCOperating voltage tolerance+/-0%Rated operational outrage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATAELDLight sourceLEDLight colourGreenOptical signal imageEVSFlash<br>PermanentPermanentService life optical50,000 h maximum  | Materials                    |                           |  |
| Protection categoryIP65ConnectionScrew terminalscross-sectional area maximum1,50mm² / 16AWGCable entryMembrane grommetCable entry minimumd = 1 mmCable entry maximumd = 13 mmCable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage trequency50HzOperating voltage frequency50HzOperating voltage tolerance+/-0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight sourceEVSFlash<br>PermanentFlash<br>PermanentService life optical50,000 h maximum   | Dome colour                  | Green                     |  |
| ConnectionScrew terminalscross-sectional area maximum1,50mm² / 16AWGCable entryMembrane grommetCable entry minimumd = 1 mmCable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage frequency50HzOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational current1 mARated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLight sourceLEDLight colourGreenOptical signal imageEVSFlash<br>PermanentService life optical50,000 h maximum  | Housing colour               | Black                     |  |
| cross-sectional area maximum1,50mm² / 16AWGCable entryMembrane grommetCable entry minimumd = 1 mmCable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage typeAC/DCOperating voltage trequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3Optical signal imageEVSFlash<br>PermanentEVSFlash<br>PermanentSo,000 h maximumACOUSTIC DATA  | Protection category          | IP65                      |  |
| Cable entryMembrane grommetCable entry minimumd = 1 mmCable entry maximumd = 13 mmCable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage frequency50HzOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVSFlash<br>PermanentFlash<br>PermanentService life optical50,000 h maximum  | Connection                   | Screw terminals           |  |
| Cable entry minimumd = 1 mmCable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVSFlash<br>PermanentSo,000 h maximumACOUSTIC DATA  | cross-sectional area maximum | 1,50mm² / 16AWG           |  |
| Cable entry maximumd = 13 mmTension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVSFlash<br>PermanentSo,000 h maximumACOUSTIC DATA   | Cable entry                  | Membrane grommet          |  |
| Tension reliefPresent (conforms to VDE)Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALEDLight sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum   | Cable entry minimum          | d = 1 mm                  |  |
| Type of fixingBase mountingWorking temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum   | Cable entry maximum          | d = 13 mm                 |  |
| Working temperature minimum-30°CWorking temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3Optical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum  | Tension relief               | Present (conforms to VDE) |  |
| Working temperature maximum+50°CWeight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALEDLight sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum   |                              | Base mounting             |  |
| Weight with packaging615 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational voltage24 VDCRated inrush current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVSFlash<br>Permanent50,000 h maximumACOUSTIC DATAImage  | Working temperature minimum  | -30°C                     |  |
| Product weight473 gProduct weight473 gELECTRICAL DATAOperating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALEDLight sourceLEDLight colourGreenOptical signal imageEVSFlash<br>PermanentService life optical50,000 h maximum  | Working temperature maximum  | +50°C                     |  |
| FLECTRICAL DATAOperating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVSFlash<br>Permanent50,000 h maximumACOUSTIC DATA  | Weight with packaging        | 615 g                     |  |
| Operating voltage10-48VOperating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVSFlash<br>PermanentFlash<br>PermanentService life optical50,000 h maximum  | Product weight               | 473 g                     |  |
| Operating voltage typeAC/DCOperating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum   | ELECTRICAL DATA              |                           |  |
| Operating voltage frequency50HzOperating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum  | Operating voltage            | 10-48V                    |  |
| Operating voltage tolerance+/- 0%Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum   | Operating voltage type       | AC/DC                     |  |
| Rated operational voltage24 VDCRated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum  | Operating voltage frequency  | 50Hz                      |  |
| Rated operational current1 mARated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum   | Operating voltage tolerance  | +/- 0%                    |  |
| Rated inrush current400 mAProtection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximum  | Rated operational voltage    | 24 VDC                    |  |
| Protection classProtection class 2Pollution degree3OPTICAL DATALight sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximumACOUSTIC DATA   | Rated operational current    | 1 mA                      |  |
| Pollution degree   3     OPTICAL DATA     Light source   LED     Light colour   Green     Optical signal image   EVS     Flash   Permanent     Service life optical   50,000 h maximum  | Rated inrush current         | 400 mA                    |  |
| OPTICAL DATA<br>Light source LED<br>Light colour Green<br>Optical signal image EVS<br>Flash<br>Permanent<br>Service life optical 50,000 h maximum<br>ACOUSTIC DATA  | Protection class             | Protection class 2        |  |
| Light sourceLEDLight colourGreenOptical signal imageEVS<br>Flash<br>PermanentService life optical50,000 h maximumACOUSTIC DATA  | Pollution degree             | 3                         |  |
| Light colour Green   Optical signal image EVS<br>Flash<br>Permanent   Service life optical 50,000 h maximum   | OPTICAL DATA                 |                           |  |
| Optical signal image EVS   Flash Permanent   Service life optical 50,000 h maximum  | Light source                 | LED                       |  |
| Flash   Permanent   Service life optical 50,000 h maximum   | Light colour                 | Green                     |  |
| ACOUSTIC DATA   | Optical signal image         | Flash                     |  |
|   | Service life optical         | 50,000 h maximum          |  |
| Volume (max) at 1m distance 108,0 dB (A)  | ACOUSTIC DATA                |                           |  |
|   | Volume (max) at 1m distance  | 108,0 dB (A)              |  |

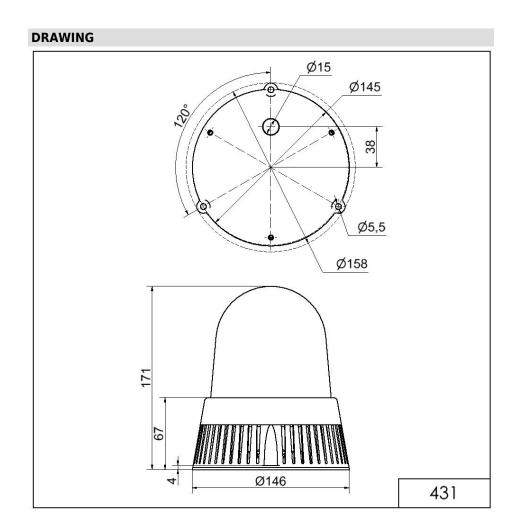
For additional installation and mounting information, refer to the appropriate user guide at www.werma.com. This printed copy is for information only and is subject to alteration.

## Midi / LED/Flash/EVS/Multi-t. sounder 431 LED Siren BM 32 tne 10-48VAC/DC GN

| Acoustic signal image         | Multi-tone            |
|-------------------------------|-----------------------|
| Number of tones               | 32 tone               |
| Acoustic service life         | 5,000 h minimum       |
| APPROVAL DATA                 |                       |
| Conforms with CE              | Yes                   |
| Conforms with RoHS directive  | Yes                   |
| WEEE                          | Yes                   |
| Conforms with ATEX-directive  | No                    |
| Conforms with CCC             | No                    |
| Conforms with UL              | cULus                 |
| UL Type Rating                | Type 12               |
| Conforms with FCC             | No                    |
| Conforms with IC              | No                    |
| EAC certificate available     | Yes                   |
| Conforms with UKCA (Importer) | Yes (WERMA (UK) Ltd.) |
| Conforms with CMIM            | No                    |
| Conforms with AS-I            | No                    |
| ICAO Certification            | No                    |
| Conforms with DNV             | No                    |
| Conforms with RoHS CN         | No                    |
| Conforms with VdS             | No                    |

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