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Retrosign GR1

Specifications

Optical specifications GR1 ASTM

Geometry:	ASTM-E-1709
- Entrance angle	-4°
- Observation angle	0.2°
- Light source angular aperture:	0.1°
- Receiver angular aperture:	0.1°
- Field of measurement, Ø	30 mm/1.2 inch and 15 mm /0.6 inch
Spectral responsivity:	
Illuminant A and V(λ) efficiency according to ASTM E1709 section 6.4.2. for selected filters.	
Range (cd·lx ⁻¹ ·m ⁻²):	0 – 2000

Optical specifications GR1 CEN

Geometry:	EN 12899
- Entrance angle	+5°
- Observation angle	0.33°
- Light source angular aperture:	0.16°
- Receiver angular aperture:	0.16°
- Field of measurement, Ø	30 mm/1.2 inch and 15 mm /0.6 inch
Spectral responsivity:	
Illuminant A and V(λ) efficiency according to ASTM E1709 section 6.4.2. for selected filters.	
Range (cd·lx ⁻¹ ·m ⁻²):	0 – 2000

Optical specifications GR1 Safety

Special version for safety clothing:

Geometry:	EN471
- Entrance angle	5°
- Observation angle	0.2°
- Light source angular aperture:	0.16°
- Receiver angular aperture:	0.16°
- Field of measurement, Ø	30 mm/1.2 inch / 15 mm /0.6 inch
Spectral responsivity:	
Illuminant A and V(λ) efficiency according to ASTM E1709 section 6.4.2. for selected filters.	
Range (cd·lx ⁻¹ ·m ⁻²):	0 – 2000

Instrument dimensions

Length:	295 mm / 11.6 inch
Width:	83 mm / 3.3 inch
Height:	324 mm / 12.8 inch
Weight:	2.1 kg / 4.6 lbs

Electrical characteristics

EMC:	EN50081-1 / EN50082-1
Power supply:	Rechargeable and replaceable Nickel Metal Hydride 9.6 V
External charger:	
- main	230 V / 50 Hz
- optional	110 V / 60 Hz
- charge time	approx. 15 minutes
Data memory:	> 250.000 measurements
Interface:	USB

Environmental specification

Temperature:	
• Operating	0°C to +50°C / 32°F to 122°F
• Storage	-15°C to +55°C / 5°F to 131°F
Humidity:	non condensing

Timing

Measurement time:	3 sec.
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Standard delivery

Carrying case
Calibration standard
RSC 3 program
Battery charger
Ø15 aperture reducer
Small supporting plate
Lens cover
Communication cable
Quick guide
User manual on CD/DVD

Options

Extension Pole Kit, 1.5-2.7 m / 4.9-8.9 feet
Fast 12 V powered battery charger
Extra battery
Ø10 aperture
Calibration certificate
Calibration service
Lens attachment for additional entrance angles of 30° and 40°
Bluetooth
RFID reader
High precision GPS unit