JES t/LUX Illuminance Meter

Features

• Photometer to measure the illuminance at the mounting point of the sensor
• Cosine correction
• V(λ) adaptation
• Delivered ready for operation
• Shock proof housing
• Optionally available in a heated housing with protection class IP 65

System

• Sensor to be mounted at the measuring point (in-situ)
• Connection either directly to tunnel control system or to a remote evaluation unit

Operation Advantanges

Application

Technical Specifications

2. Technical data

Illuminance measurement	
Measured value	Illuminance
Measuring range	Selectable, typically 0 .. 200 lx
Measurement accuracy	± 3% (5 to 200 lx) ± 6% (at 1 lx) not defined for measured values below 1 lx
Zero point drift	0.02 lx / °C
Reference temperature	20°C
Spectral range of photosensitivity	Adjusted by V-Lambda filter $V_{rel}(\lambda) \geq 80\%$ between 490 nm and 630 nm
Directional characteristic	Half ellipse, $E_{rel} = 0.8$ at ± 35°

Illuminance sensor	
Name	t/LUX
Power supply	24 VDC via current loop
Housing material	Glass bead reinforced polyamide (PA 6 30% GK)
Temperature range	-25 °C to +60 °C
IP rating	IP 65
Dimensions	64 x 98 x 34 mm
Weight	300 g

Illuminance sensor heated housing	
Name	t/LUX-H
Power supply	230 VAC (other voltages on request)
Heating	100 W (controlled by thermostat))
Material	Glass fibre reinforced polyester, RAL 7035 or Stainless steel 1.4571 (AISI 316Ti) (optionally)
Temperature range	-40°C bis +60°C
Protection class	IP 65
Dimensions	250 x 300 x 140 mm
Weight	4,5 kg

Outputs	
Analogue output	1 x 4-20 mA, 2-wire, passive

Conformities	
Electrical engineering	2006/95/EC Low Voltage Directive (LVD) 2004/108/EC Electromagnetic compatibility (EMC) IEC 61326-1:2012 IEC 61010-1:2010
Tunnel safety	AT: RVS 09.02.41 DE: RABT 2006, DIN 67542-2