Positive events...

in the form of sunshine trigger the three identical sensor elements' quick response.
The elements themselves are absolutely immovable and thus guarantee nearly maintenance-free operation, extreme robustness and longevity.
Aligned to the nearest pole - the sensor is easy to install at all latitudes.
In ice and snow, the system's two-phase heating is controlled external or by an internal thermostat (variety).
The amount of sunny hours per day is of particular importance both for the growth of plants and for the human well-being.

- stable glass cylinder for protection of the sensor elements
- water-proof cable plug connection for safe application
- innovative humidity indicator for easy handling

agricultural meteorology • weather services for climate charts and tourist information • health care • climate categorization of health resorts

PROFESSIONAL

SUNSHINE DURATION

Professional Line	**(16203)**	**Sunshine Duration Sensor**	**Id-No. 00.16203.010 004**
Measuring element/ -principle:		3 photodiodes • photoelectric	
Measuring range:		sunshine yes or no • spectral range 400...1100 nm	
Range of application:		temperatures -40...+70 °C	
Response time:		‹ 1 ms	
Output signals:		0 ± 0.1 V_{DC}: no sunshine · direct irradiance ‹ 120 W/m²	
		1 ± 0.1 V_{DC}: sunshine yes · direct irradiance › 120 W/m²	
Power requirement:		at supply voltage of 12 V_{DC}:	
		without heating:	‹ 0.1 W
		at heating level 1 for defrosting of dew:	1 W ± 0.1 W (nominal)
		at heating level 2 for deicing of snow:	10 W ± 1 W (nominal)
Housing:		IP 67 • glass cylinder · dimensions approx. L 294 mm · Ø max. 72.5 mm • incl. cable with 15 m length and 8 pole plug • 2 drying cartridges • specific test report	
Weight:		approx. 0.9 kg	
Standards:		CE 89/336/EEC • 73/23/EEC	
Variety:			
00.16203.110 004	**(16203)**	**Sunshine Duration Sensor** Technical data like above, but with integrated thermostat for heating control Heating level 2 on at ‹ 6 ± 3 °C • heating level 2 off at › 14 ± 3 °C	