Laetus

LUMAT 920 M

Presence control

The luminescence sensor LUMAT 920 M is ideal for recognising optically brightened materials, i.e. ones which have been enhanced with luminiphores. It recognises labels, markings, leaflets and all luminescent objects.

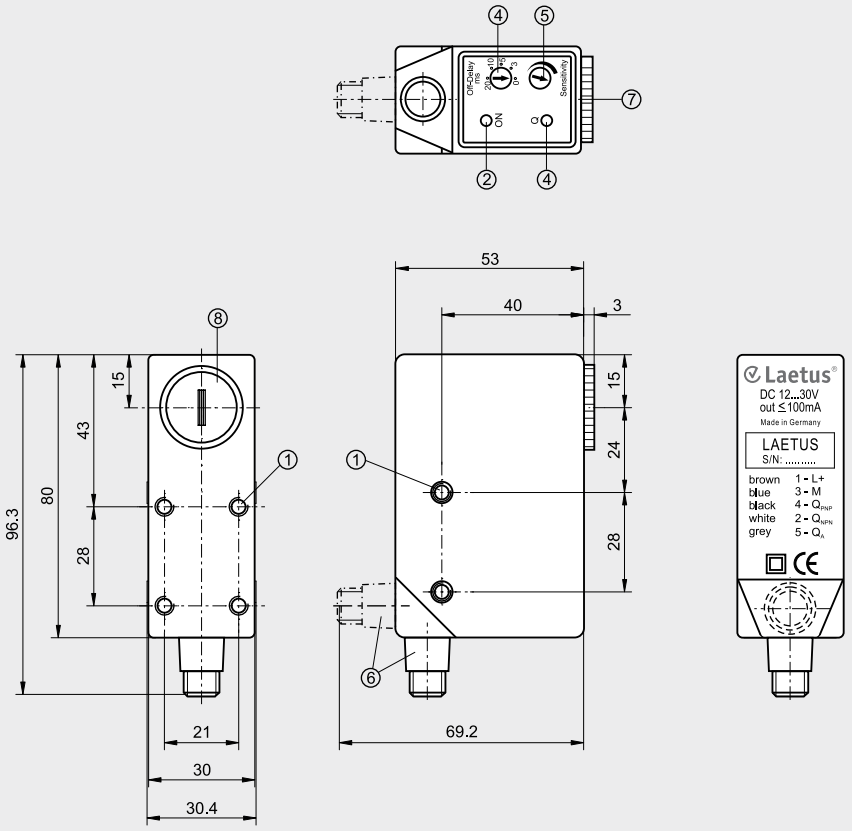
Decisive advantages with the use of the LUMAT 920 M are as follows:

- the compact design
- its high selective sensivity
- a long service life-cycle (100.000 hours)
- all functions set and monitored on the sensor head itself
- robust die-cast casing IP 67
- wide application range
- single spot design for precise measurement

The device, operated in conjunction with a control unit such as the ARGUS or a PLC, offers an effective security system in pharmaceutical packaging control.

The special feature of the LUMAT 920 M is, that it works on the principle of the transformation of UV light into visible light. The LUMAT uses this effect to – for example, recognise labels on containers of the same colour. The high frequency light source also allows the sensor to be used to recognise "invisible" markings on fast-moving objects.

Dimesiones	56 x 96,3 x 30,4 mm
scanning distance	**Spot sizes**
10 mm	4 mm
20 mm	2 mm
35 mm	1 mm
50 mm	5 mm
Light source	LED
Wavelength	370 nm
Service life (typically)	100.000 hours
Supply voltage	12 - 30 V DC
Residual ripple	max. 2 Vss
Power consumption	60 mA (without load 24 V DC)
Output signal	PNP, high: Uv - < 3 V, low: Ua = 0 V NPN, high: Uv, low: < = 2 V
Output current	100 mA short-circuit-proof
Response time	0,3 ms
Output switching frequency	1,5 kHz (pulse on-off ratio 1:1)
Timed output	can be set at 3 ms, 5 ms, 10 ms, 20 ms
Analog output	0,5 .... 10 mA
Operation temperature	- 10 bis + 55 °C
Storage temperature	- 25 bis + 74 °C
Degree of protection	IP 67
Weight	approx. 400 g



1. Mounting hole M5/5.5 mm deep
2. Operating indicator (green)
3. Output indicator (yellow)
4. Time delay control
5. Sensitivity control
6. Plug type M12 x 1, 4-wire (adjustable)
7. Lens (light emitting)
8. Light position

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