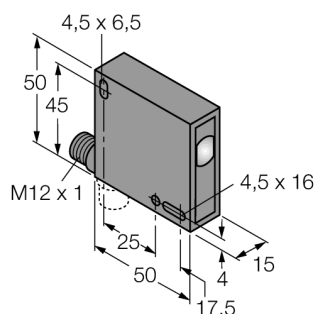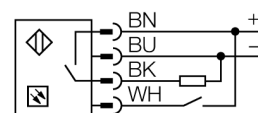# Photoelectric Sensor
Luminescence Sensor
QL50AP6XD20BQ

- Protection class IP67
- M12 × 1 connector rotatable by 90°
- Operating voltage 10…30 VDC
- PNP switching output
- Non-volatile EEPROM memory

Wiring Diagram

Type	QL50AP6XD20BQ
ID	3070936

Optical data	
Function	Inspection sensor
Operating mode	Luminescence sensor
Light type	UV
Light spot diameter	2 mm
Range	0…40 mm

Electrical data	
Operating voltage U_B	10…30 VDC
DC rated operating current I_e	≤ 50 mA
No-load current I_0	≤ 100 mA
Output function	NO contact, PNP
Switching frequency	2 kHz
Setting option	Push Button
	Remote Teach

Mechanical data	
Design	Rectangular, QL50
Housing material	Plastic, ABS
Lens	glass, Glass
Electrical connection	Connector, M12 × 1, PVC
Number of cores	4
Ambient temperature	-25…+55 °C
Relative humidity	0…90%
Protection class	IP62

Switching state	LED, Yellow
Excess gain indication	LED

Tests/approvals	

Functional principle

The QL50 is a user-friendly compact luminescence sensor, which emits invisible ultraviolet light via its UV emitting LED and detects the resulting visible luminescent light of the medium. Detection is enabled through conversion of the light wave length with the reflection on media which contain luminescent substrates. Due to its compact size it can be easily mounted almost everywhere. The configuration options comprise a programming mode for adjustment of the sensitivity as well as a fine tuning option for a large range of luminescence intensities and background conditions.