

WSE27-3P2410S03







Photoelectric sensors W27-3, Through-beam photoelectric sensor

Model Name > WSE27-3P2410S03

Part No. > 1054544



At a glance

- · Long sensing range with a high operating reserve
- · Quick alignment with red emitter
- · Resistant to environmental noise such as ambient light
- · Optional alarm output, front screen heating, test input, time delays, and universal AC/DC voltage
- Operating temperature: -40 °C +60 °C
- · UL approval

Your benefits

- · Less contamination due to high operating reserves, reducing downtime
- · Optional features, such as time delays, enhance functionality when needed.
- · Resistant to vibrations, reducing downtime
- Reliable operation in harsh environments with temperatures as low as -40 °C
- · Durable housing with reinforced mounting holes withstands harsh conditions



Illustration may differ







Features

Sensor/detection principle: Through-beam photoelectric sensor Dimensions (W x H x D): 24.6 mm x 80.6 mm x 54 mm

Housing design (light emission): Rectangular 0 m ... 45 m Sensing range max.: 0 m ... 35 m Sensing range: Infrared light Type of light: LED 1) Light source: Wave length: 880 nm Angle of dispersion: Ca. 6°

Special features: Maximum sensing range 45 m, Swichting frequency 300 Hz

Light spot size (distance): Ø 3.7 m (25 m)

1) Average service life of 100,000 h at T $_{A}$ = +25 °C

Mechanics/electronics

10 V DC ... 30 V DC 1) Supply voltage:

45 mA Power consumption, sender: 20 mA Power consumption, receiver: PNP Output type:

Output function: Complementary Switching mode: Light/dark switching
Signal voltage PNP HIGH/LOW: Approx. VS - 2.5 V/0 V

Output current Imax.: $\leq 100 \text{ mA}$ Response time: $\leq 1.7 \text{ ms}^{4)}$ Switching frequency: $300 \text{ Hz}^{5)}$ Angle of reception: Ca. 3 °

Connection type: Connector M12, 4-pin Circuit protection::: A, B, C $^{6)$ 7) 8)

Circuit protection:::

Protection class:

Weight:

Housing material:

Optics material:

Enclosure rating:

A, B, C of 77

II 9)

ABS, Plastic

PMMA

IP 66
IP 67

Test input sender off: TE to 0 V Ambient operating temperature: $-40 \,^{\circ}\text{C} \dots 60 \,^{\circ}\text{C}$ Ambient storage temperature: $-40 \,^{\circ}\text{C} \dots 75 \,^{\circ}\text{C}$

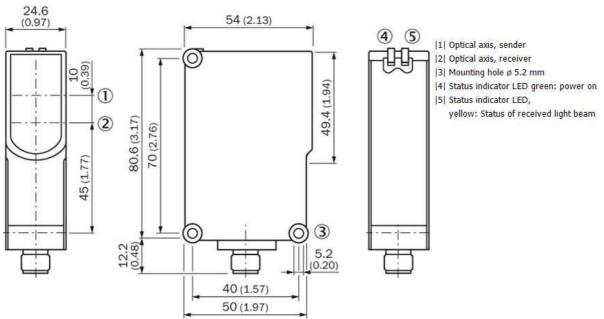
Part number of individual components: Receiver, WE27-3P2410S03, 2060720, Sender, WS27-3D2410S03,

2060721

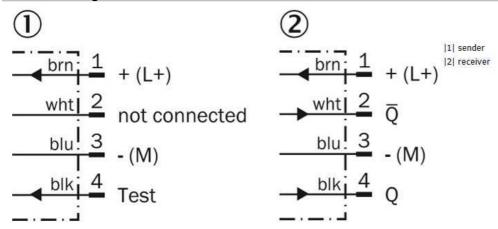
UL File No.: NRKH.E181493 & NRKH7.E181493

1) Limit values, operation in short-circuit protected network max. 8 A 2) 3) Without load 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) A = V S connections reverse-polarity protected 7) B = inputs and output reverse-polarity protected 8) C = interference suppression 9) Reference voltage 50 V DC

Dimensional drawing



Connection diagram



Connection type



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