



Photoelectric sensors W27-2 AS-i, Photoelectric retro-reflective sensor

WL27-2Z240



Model Name > [WL27-2Z240](#)
Part No. > [1015136](#)



Illustration may differ

At a glance

- Integrated AS-i chip
- Retro-reflective sensor with visible red light
- Large sensing ranges with a high operating reserve
- Optional front screen heating

Your benefits

- Less cabling - due to AS-i technology - simplifies setup
- Less contamination due to high operating reserves, reducing downtime
- Front screen heating reduces condensation from forming on the front lens, thus reducing maintenance costs and downtime



Features

Sensor/detection principle:	Photoelectric retro-reflective sensor
Dimensions (W x H x D):	24.6 mm x 80 mm x 53.5 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0.1 m ... 14 m ¹⁾
Sensing range:	0.1 m ... 14 m ²⁾
Type of light:	Visible red light
Light source:	LED ³⁾
Light spot (distance):	220 mm (10 m)
Sensitivity adjustment:	Potentiometer

^{1) 2)} PL80A ³⁾ Average service life of 100,000 h at T_A = +25 °C

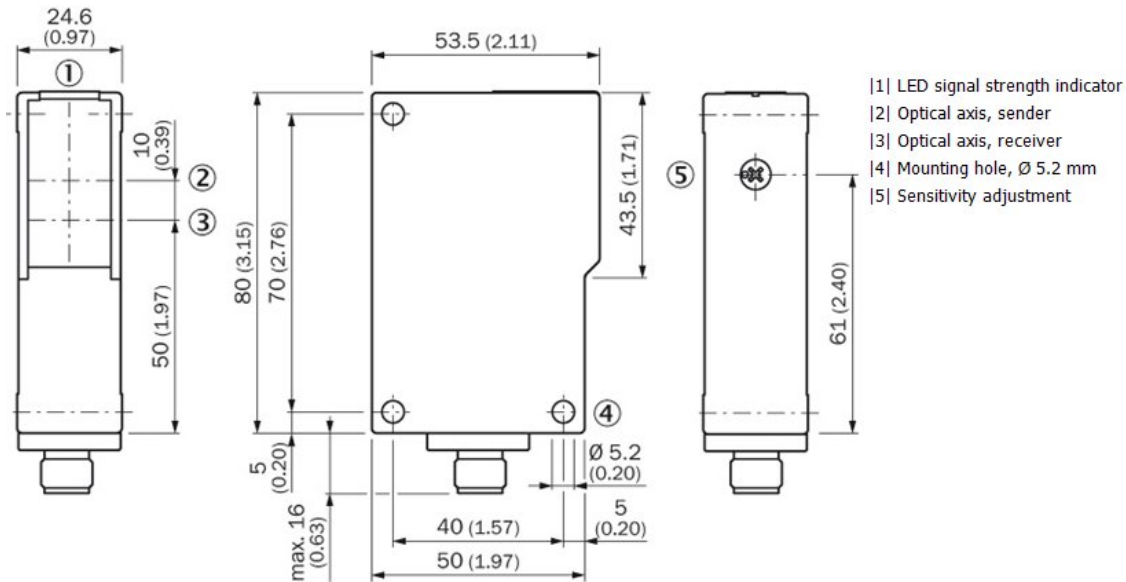
Mechanics/electronics

Supply voltage:	26.5 V DC ... 31.6 V DC ¹⁾
Ripple:	≤ 5 % ²⁾
Power consumption:	≤ 40 mA ³⁾
Response time:	< 500 µs ⁴⁾
Switching frequency:	1,000 Hz ⁵⁾
Connection type:	Connector M12, 4-pin
Circuit protection::	A, C ^{6) 7)}
Protection class:	II
Weight:	100 g
Front screen heating:	✓
AS-Interface-Chip:	✓

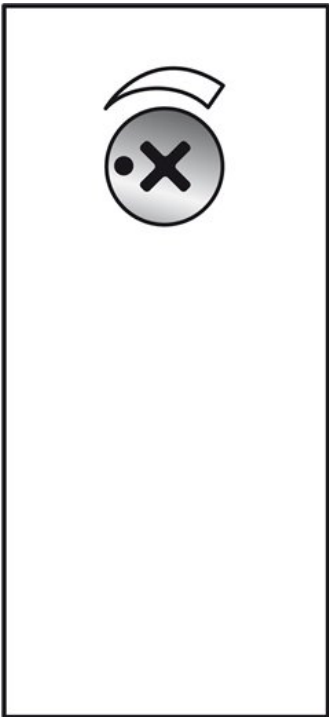
AS-Interface Profil:	S 1.1
Housing material:	ABS
Enclosure rating:	IP 67
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File-No.:	UL No. NRKH.E147756

¹⁾ Limit values ²⁾ May not exceed or fall short of V_S tolerances 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⁾ C = interference suppression

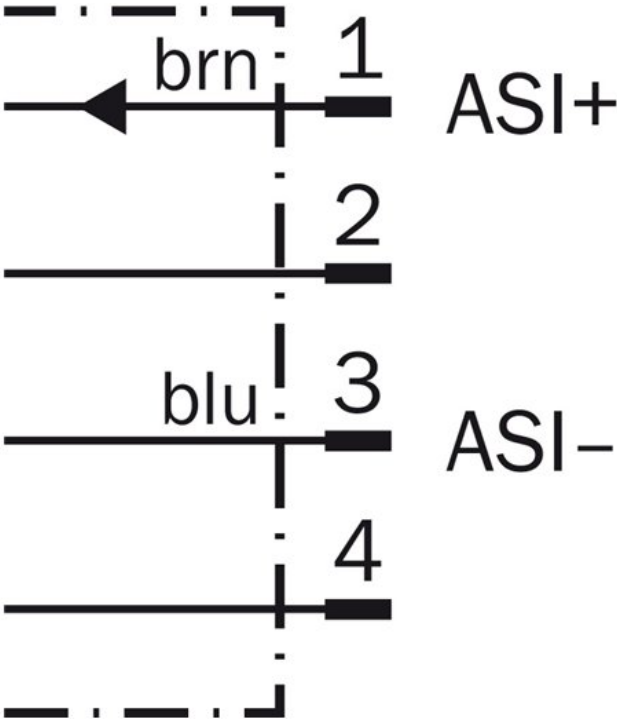
Dimensional drawing



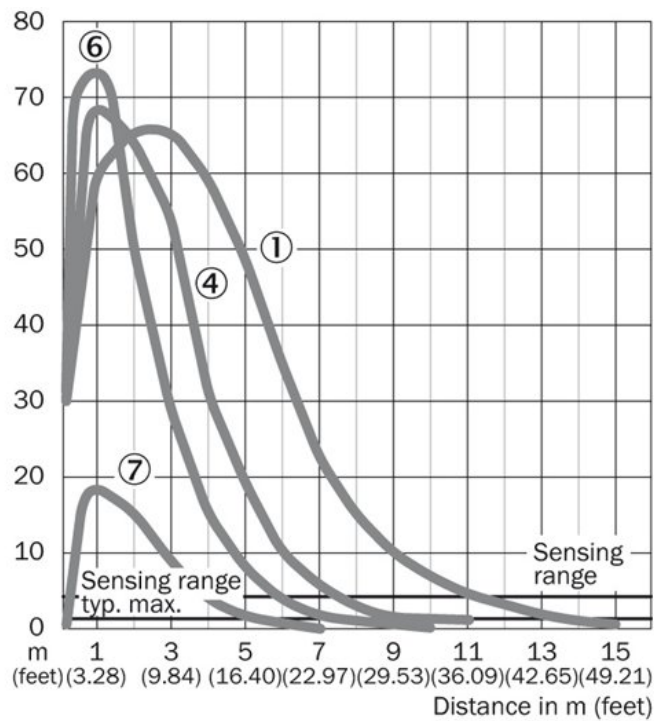
Adjustments possible



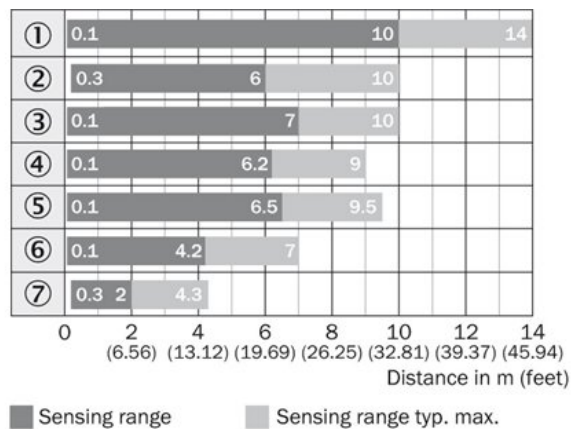
Connection diagram



Characteristic curve



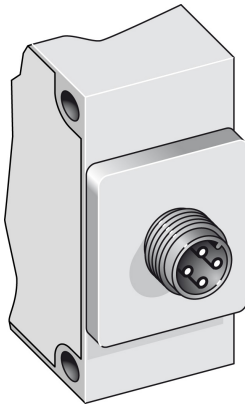
Sensing range diagram



Reflector type

- ① PL80A
- ② C110
- ③ PL50A
- ④ PL40A
- ⑤ PL30A
- ⑥ PL20A
- ⑦ Reflective tape Diamond Grade

Connection type



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