

QS18VP6AF100 W/30 Photoelectric Sensor – Diffuse Mode Sensor with Adjustable Background Suppression



Technical data

Туре	QS18VP6AF100 W/30
ID no.	3067403
Optical data	
Function	Proximity switch
Operating mode	Background suppression, adjustable
Light type	Red
Wavelength	640 nm
Range	1100 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO/NC, PNP
Current output	100 mA
Switching frequency	≤ 700 Hz
Readiness delay	≤ 200 ms
Response time typical	< 0.7 ms
Setting option	Mechanical Screw
Mechanical data	
Design	Rectangular, QS18
Dimensions	21.1 x 15 x 34.5 mm
Housing material	Plastic, ABS
Lens	plastic, Acrylic
Electrical connection	Cable, 9 m, PVC



Features

Cable, PVC, 2 m

Protection class IP67

LED all-round visible

Cut-off point adjusted via potentiometer

Operating voltage: 10...30 VDC

PNP switching output, changeover

Wiring diagram

BN (1) + BK (4) WH (2) BU (3) -

Functional principle

Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements, one for close range and one for long-range. The target position and the photoelectric structure of the sensor determine which of the receiving elements receives the most light. The optics before the receiver is modified with the adjusting screw until the boundary between close and longrange is shifted. This operation determines whether the reflecting object is within or outside the measuring range.

Excess gain curves relating to the nearest and farthest cut-off point



Technical data

4
0.35 mm ²
0+55 °C
IP67
LED, Green
LED, Yellow
LED, green, Flashing
LED, yellow, flashing
268 years acc. to SN 29500 (Ed. 99) 40 °C
CE, cURus



Accessories

