

QS18VP6DQ1

- Diffuse Mode Sensor

Technical data	
Туре	QS18VP6DQ1
ID no.	3075382
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	IR
Wavelength	940 nm
Range	1450 mm
Operating voltage	1030 VDC
Switching frequency	≤ 800 Hz
Readiness delay	≤ 100 ms
Response time typical	< 0.6 ms
Setting option	Potentiometer
Design	Rectangular with thread
Dimensions	Ø 18 mm
Housing material	Plastic, ABS
Lens	Acrylic
Electrical connection	Cable with connector, M8 × 1, 0.15 m, PVC
Number of cores	4
Ambient temperature	-20+70 °C
Protection class	IP67
Excess gain indication	LED
Tests/approvals	

Features

- ■LED all-round visible
- Sensitivity adjusted via potentiometer

Functional principle

Identical to retro-reflective sensors, emitter and receiver circuitry are incorporated in the same housing of the diffuse mode sensors. However, diffuse mode sensors do not detect the interruption of the light beam but the reflection of the target. A target is detected if it reflects sufficient light back to the receiver. The switching distance of diffuse mode sensors thus largely depends on the reflectivity of the target.

Excess gain curve
Excess gain in relation to the distance

