

Diffuse Mode Sensor QS18VP6DQ1

Гуре	QS18VP6DQ1
D	3075382
Optical data	
unction	Proximity switch
Operating mode	Diffuse
ight type	IR
Vavelength	940 nm
Range	1450 mm
Operating voltage U _в	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
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

- 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

