

SMI30AN6RYQ

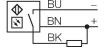
Opposed Mode Sensor (Receiver)

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D	3035279
Optical data	
unction	Opposed mode sensor
perating mode	Receiver
Range	060000 mm
Electrical data	
perating voltage	1030 VDC
lo-load current	≤ 25 mA
hort-circuit protection	yes / Cyclic
everse polarity protection	yes
Output function	NO contact, light operation, NPN
eadiness delay	≤ 0 ms
esponse time typical	< 1 ms
vercurrent release	> 220 mA
esign	Tube
imensions	Ø 30 mm
ousing material	Plastic, Thermoplastic material
ens	Acrylic
lectrical connection	Connector, 7/8", PVC
umber of cores	3
mbient temperature	-40+70 °C
rotection class	IP67
pecial features	Encapsulated
ower-on indication	LED, Green
witching state	LED, Yellow
ror indication	LED, green, Flashing
xcess gain indication	LED
arm display	LED yellow Flashing

Features

- Selectable light/dark operation or light operation with alarm function
- ■Operating voltage: 10...30 VDC
- ■NPN switching output, light operation

Wiring diagram



Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions. Excess gain curve

Excess gain in relation to the distance