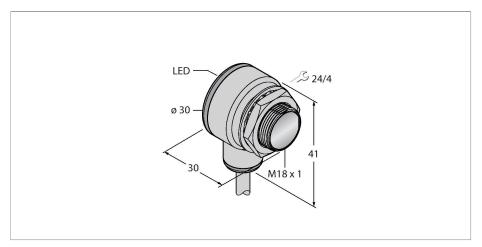


TM18VN6DV Photoelectric Sensor – Diffuse Mode Sensor





Technical data

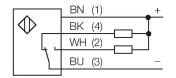
Туре	TM18VN6DV
ID	3018035
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	Red
Wavelength	880 nm
Range	500 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Complementary contact, NPN
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Overcurrent release	> 220 mA
Mechanical data	
Design	Tube, TM18
Dimensions	Ø 18 x 30 x 30 x 41 mm
Housing material	Metal, Zinc Die-Cast with Nickel-Plating
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.5 mm²
Ambient temperature	-40+70 °C
Protection class	IP67

Features

- Cable, 2 m
- ■Protection class IP67
- ■Ambient temperature: -40...+70 °C
- Metal housing
- ■500 mm range
- Operating voltage: 10...30 VDC
- NPN switching output, light and dark opera-

tion

Wiring diagram



Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance

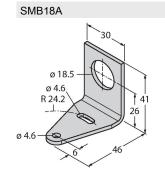


Technical data

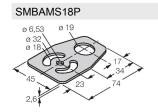
Special features	Encapsulated Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE, UL

Accessories

SMBT18Y	3069554
	mounting bracket, rectangular, for sensors with 18 mm thread, 15.3 mm cable feedthrough or M12 x 1 male



3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread



3073134 Mounting bracket, stainless steel, for sensors with 18 mm thread