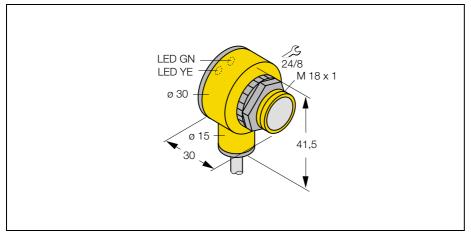


Photoelectric sensor

T18-SP6-FF100





Туре	T18-SP6-FF100
Ident-No.	3463600
Sensing range	100 mm
Operating mode	Diffuse mode sensors with fixed-field back- ground suppression
Type of light	IR
Wave length	880 nm
Adjustment variable 1	light and dark operate or light operate and alarm
Adjustment means 1	output programmable
Rated operational voltage (DC) U _e	1030 VDC

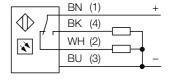
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Rated operational current (DC) I _e	150 mA
No-load current I ₀	≤ 35,0 mA
Short-circuit protection	yes, cyclic
Reverse polarity protection	yes
Output function	complementary outputs/normally open, PNP
Max. switching frequency	≤ 0,16 kHz
Max. switch-on delay	≤100 ms
Overload trip point	>220 mA
Degree of protection	IP 67
Operation temperature	-4070 °C

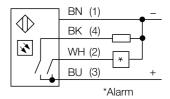
Housing style	cylindric, thread; T18	
Dimensions	41,5 x 30,0 mm	
Housing material	PBT	
Lens	acrylic	
Wiring	Cable; PVC	
Cable length	2,0 m	
Cross section	4 x 0,5 mm ²	
Complement to the Real to	LED many	
Supply voltage indication	LED; green	
Switching status indication	LED: vallow	

Supply voltage indication	LED; green
Switching status indication	LED; yellow
Error indication	LED; green flashing
Alarmausgang	LED; yellow flashing

- Diffuse mode sensor with fixed-field background suppression
- Cable, 2 m

Wiring diagram





Function principles

Sensors with background suppression use one emitter and multiple receiving elements. The position of the object to be detected and the optical design of the sensor will determine on which receiver element most of the reflected light will fall. Additional electronics will decide if the object that reflects the light is located in or out the sensing window. Sensors may have either a fixed or an adjustable cut-off point. Typical applications are detection of dark object in front of a white background.

Excess gain curve

Excess gain in relation to the distance

