

photoelectric sensor

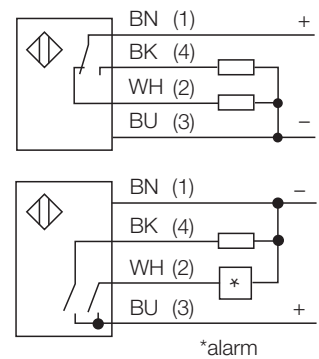
diffuse mode sensor with background suppression

S18SP6FF50Q

- selectable light or dark operation or light operation with alarm function

- Male connector M12 x 1

Wiring diagram

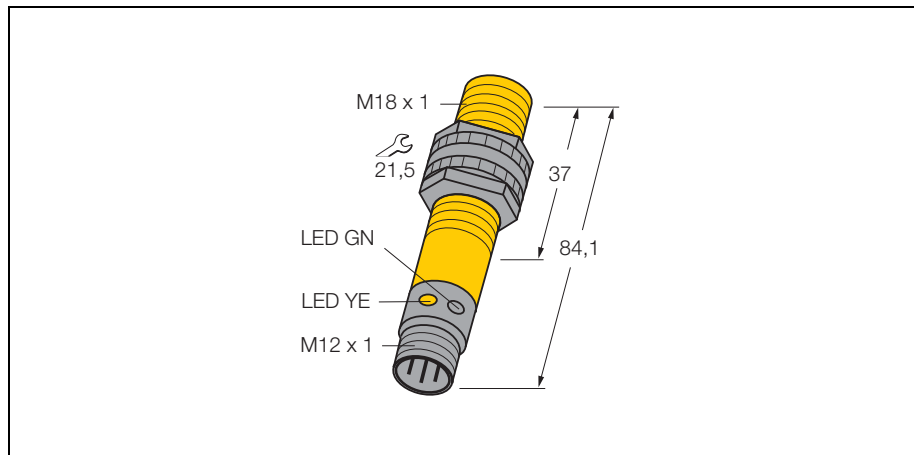
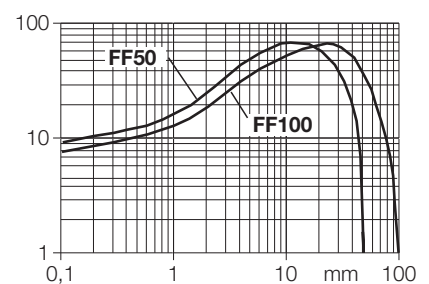


Functional principle

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



Type	S18SP6FF50Q
Ident-No.	3030883
Operating mode	diffuse mode sensor with fixed-field background suppression
Light type	IR
Wavelength	880 nm
Range	0... 50 mm
Ambient temperature	-40... + 70°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 35 mA
Output function	connection programmable, PNP
Switching frequency	≤ 160Hz
Readiness delay	≤ 100 ms
Overcurrent release	>220 mA
Housing	cylindrical/threaded, S18
Dimensions	84.1mm
Housing diameter	Ø 18mm
Housing material	Plastic, PBT
Lens	plastic, acrylic
Electrical connection	Connectors, M12 x 1
Protection class	IP68 / IP69K
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing