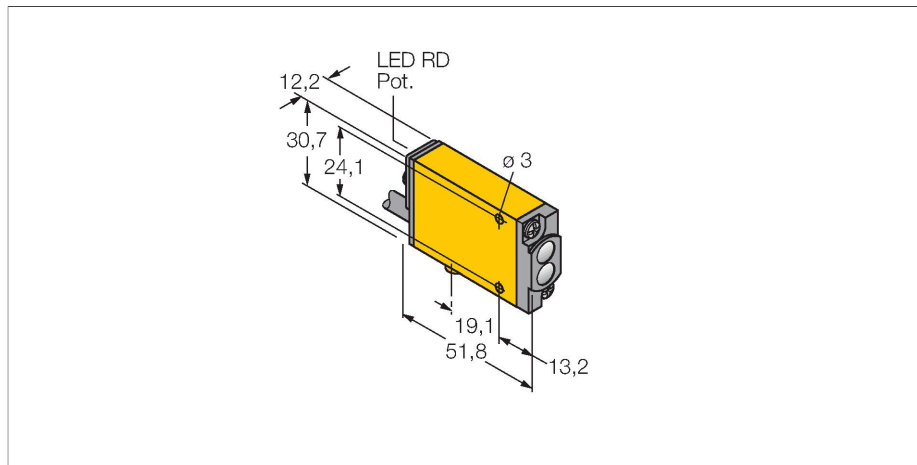


# SM2A312FP1

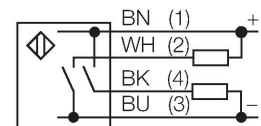
## Photoelectric Sensor – Photoelectric Sensor for Plastic Fibers



### Features

- Cable, PVC, 2 m
- Protection class IP67
- Sensitivity adjusted via potentiometer
- Alignment indicator
- Operating voltage: 24...240 VAC
- Switching output, bipolar
- Light/dark operation

### Wiring diagram



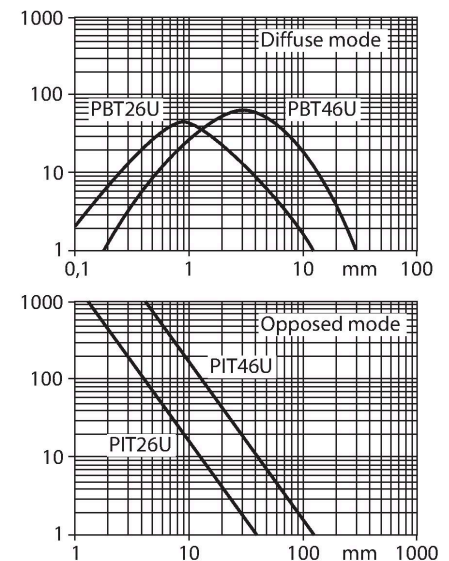
### Technical data

Type	SM2A312FP1
ID no.	3063750
<b>Optical data</b>	
Function	Photoelectric sensor for plastic fibers
Fiber-optic type	plastic
Light type	Red
Wavelength	650 nm
<b>Electrical data</b>	
Operating voltage	24...240 VAC
Output function	Relay output
Readiness delay	≤ 300 ms
Response time typical	< 4 ms
Setting option	Potentiometer
<b>Mechanical data</b>	
Design	Rectangular, Mini Beam
Housing material	Plastic, Thermoplastic material, Yellow
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	2
Ambient temperature	-20...+70 °C
Relative humidity	0...90 %
Protection class	IP67
Special features	Wash down
Excess gain indication	LED
<b>Tests/approvals</b>	
Approvals	CE, cURus, CSA

### Functional principle

Glass or plastic fibers are the optimum choice for high-temperature applications and limited spaces. Optical fibers transfer the light from the sensor to a remote object. Individual fibers are used for opposed sensing mode, whereas bifurcated fibers are suited for diffuse sensing mode.

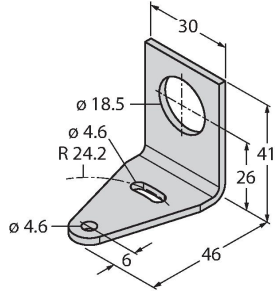
Excess gain curve  
Excess gain in relation to distance



## Accessories

SMB18A

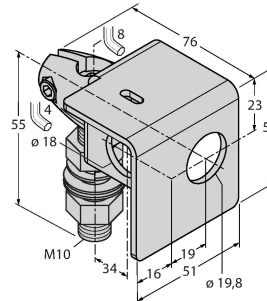
3033200



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

SMB18AFAM10

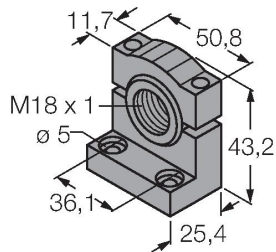
3012558



Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

SMB18SF

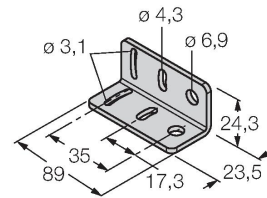
3052519



Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable

SMB312B

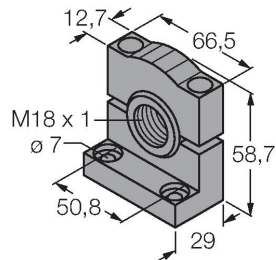
3025519



Mounting bracket, stainless steel, for MINI-BEAM NAMUR

SMB3018SC

3053952



Mounting bracket, PTB black, for sensors with 18 mm thread