

S186ELD W/30 Photoelectric Sensor – Laser Emitter



Technical data

otical data Inction C berating mode L	3035006 Dpposed mode sensor Laser Emitter
perating mode C	
perating mode L	
5	_aser Emitter
ght type R	
	Red
avelength 6	650 nm
ser class	<u>A</u> 1
ange 0	015000 mm
ectrical data	
perating voltage 1	1030 VDC
esidual ripple <	< 10 % U _{ss}
eadiness delay <	≤ 100 ms
echanical data	
esign T	Threaded barrel, S18
mensions Q	ð 18 x 69.5 mm
pusing material P	Plastic, Thermoplastic material
ns p	plastic, Polycarbonate
ectrical connection C	Cable, 9 m, PVC
imber of cores 2	2
pre cross-section 0	0.5 mm ²
nbient temperature -	10+50 °C
	P67 P69
pecial features V	Wash down
wer-on indication L	ED, Green
ccess gain indication L	ED



Features

Cable, PVC, 9 m

Protection classes IP67/IP69K

Ambient temperature: -10...+50 °C

Operating voltage: 10...30 VDC

Wiring diagram

Г	<u> </u>	BN (1)	+
	$\langle \!$	BU (3)	
		DU (0)	
	X	BK	1)

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



Technical data

Tests/approvals

Approvals

CE, UL, CSA



Accessories



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

SMB3018SC



3053952 Mounting bracket, PTB black, for sensors with 18 mm thread



3073134

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