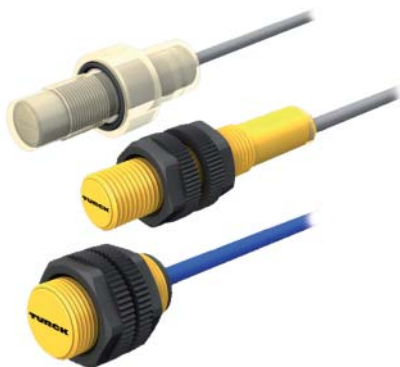


## Термо устойчиви

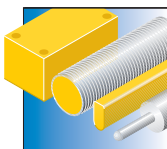


A growing number of applications require sensors resisting temperatures beyond the standard range of -25 ... +70 °C. For this purpose TURCK has developed capacitive sensors which meet exactly these requirements. The sensors feature temperature resistant components as well as cleverly designed passive cooling concepts, approved in demanding laboratory tests. These sensors resist temperatures from -25 °C to +100 °C.

### Features

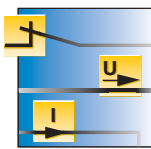
- For temperatures up to +100 °C
- Automatic wetting compensation
- Excellent EMC properties
- ESD immunity

### Properties



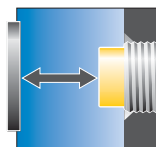
#### Design

Threaded barrel  
M12 x 1 and M18 x 1



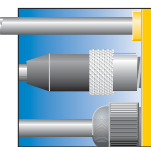
#### Electrical versions

3-wire DC and NAMUR



#### Switching distances

3 mm and 5 mm flush  
mounting



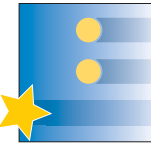
#### Electrical connections

2 m cable



#### Materials

Rugged, temperature  
resistant housing  
materials, application  
optimized cable quali-  
ties



#### Special features

Fixed settings via po-  
tentiometer,  
-25 °C to +100 °C

## +100°C – S12 – 3-wire DC



<b>Type</b>	BC3-S12-AP6X/S100
<b>Dimensions</b>	Ø12 x 63 mm
<b>Switching distance</b>	3 mm,
<b>Output</b>	—, PNP
<b>Electrical connection</b>	cable
<b>Operating voltage</b>	10...30 VDC
<b>Ambient temperature</b>	-25...+100 °C

<b>Protection class</b>	IP67
<b>Material housing</b>	PA
<b>Material active face</b>	PA
<b>Material cable</b>	PUR 2 m
<b>Wiring diagram</b>	w004
<b>Dimension drawing</b>	d343

## +100°C – S18 – NAMUR



<b>Type</b>	BC5-S18-Y1X/S100
<b>Dimensions</b>	Ø18 x 74 mm
<b>Switching distance</b>	5 mm,
<b>Output</b>	NAMUR
<b>Electrical connection</b>	cable
<b>Operating voltage</b>	8.2 VDC
<b>Ambient temperature</b>	-25...+100 °C

<b>Protection class</b>	IP67
<b>Material housing</b>	PA
<b>Material active face</b>	PA
<b>Material cable</b>	silicone 2 m
<b>Wiring diagram</b>	w019
<b>Dimension drawing</b>	d345

## +100°C – S185 – 3-wire DC



<b>General data</b>	
<b>Dimensions</b>	Ø18 x 74.5 mm
<b>Switching distance</b>	5 mm,
<b>Electrical connection</b>	cable
<b>Operating voltage</b>	10...65 VDC
<b>Ambient temperature</b>	-25...+100 °C

<b>Protection class</b>	IP67
<b>Material housing</b>	PVDF
<b>Material active face</b>	PVDF
<b>Material cable</b>	PVC 2 m

### Types and data – selection table

Type	Output		
BC5-S185-AP4X/S100	—, PNP	w004	d354
BC5-S185-AN4X/S100	—, NPN	w005	d354

Wiring diagrams on page 832 ff

Dimension drawings on page 842 ff

Accessories on page 736 ff