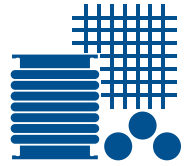


# BFM® - PROXIMITY SENSORS

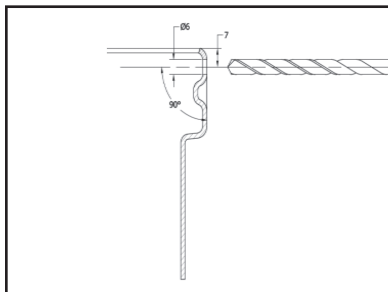


Proximity sensors are used to shut equipment down if the BFM connector is removed from the spigot. The choice of which sensor is used is largely dependent on the type of equipment control system.



We recommend sensors from Balluff. We have tested the Balluff 6.5mm diameter Normally Closed (NC), Flush Mounted, Shielded Capacitive Sensor.

There are a number of options, please visit the Balluff website for a comprehensive catalog and local contact [www.balluff.com](http://www.balluff.com).



**BCS G06T4E1-POM15C-EP02**  
**Ordering code: BCS001M**  
 Capacitive sensor

Cable, PUR  
 Working range 0,1...1,5 mm  
 Output signal PNP, Normally closed (NC)  
 Flush (shielded)

**BALLUFF**  
*sensors worldwide*

1) Active surface, 2) Housing, 3) Top cover, 4) Pot, 5) LED function indicator

<b>Characteristic data</b>		Number of conductors	3
Technology	Standard	Conductor cross-section	0,14 mm <sup>2</sup>
Special properties	Small housing	Temp. drift max. (% of Sr)	15
Short-circuit protected	Yes	Ambient temperature	-10...70 °C
Protected against reverse connection	Yes	Housing material	1.4301
		Sensing surface material	PTFE
		Cable jacket material	PUR
		Cover material	POM
		Repeat accur. R max. (% of Sr)	2 %
<b>Electrical data</b>		<b>Basic data</b>	
Electrical version	DC, direct current	Degree of protection as per IEC 60529	IP65
Operating voltage	11...30 V DC	Basic standard	IEC 60947-5-2
Effective operating current Ie	50 mA	Utilisation category	DC 13
Rated insulation voltage Ui	75 V DC	<b>Remarks</b>	
No-load current to damped	10 mA		
Voltage drop static max.	2 V		
Ripple max. (% of Ue)	10 %		
Switching freq. f max.	100 Hz		
Hysteresis H max. (in % of Sr)	15 %		
<b>Mechanical data</b>			
Rated operating distance Sn	1,5 mm		

LISTED IND. CONT. EQ. #112  
 for use in the secondary of  
 a class 2 source of supply

These sensors are mounted in the center of the top ring on the BFM® spigot.

We advice using a food grade electrical or cable gland (Hummel Gland) which can be welded directly onto the outside of the spigot. Another option is to weld a threaded nut to the spigot for a gland to be screwed into.