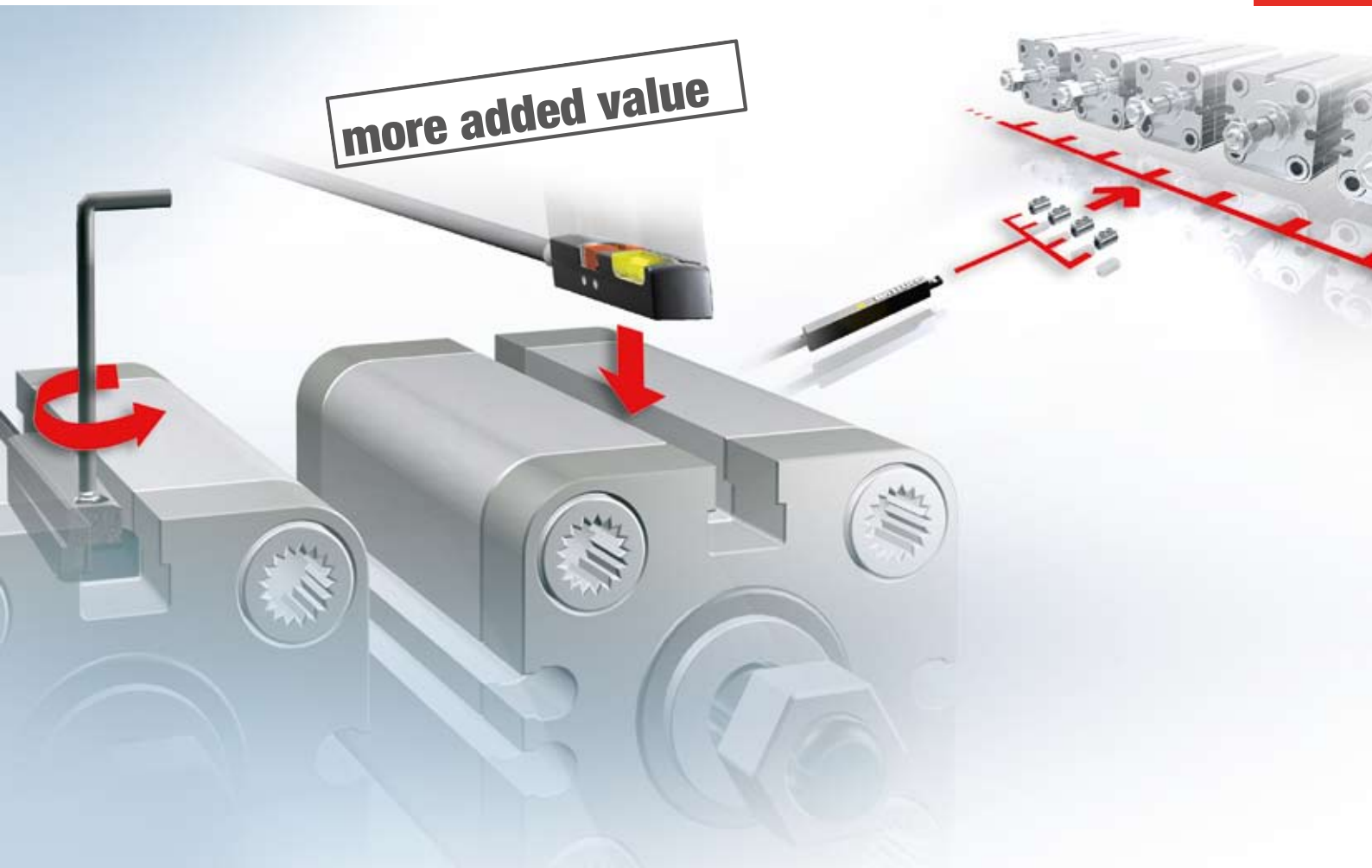
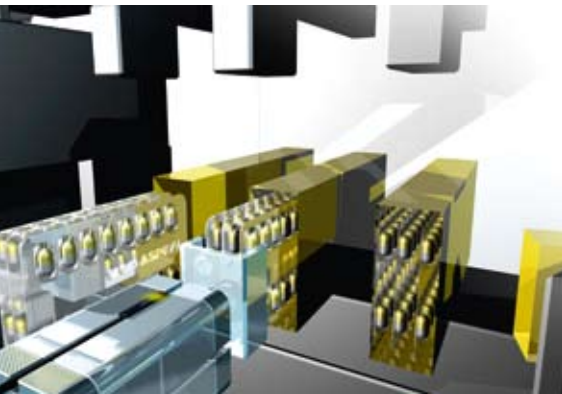


# Sensors for Pneumatic Cylinders

Product overview – BMF magnetic field sensors



## more added value



### Reliable, wear-free position detection on all pneumatic cylinders

Magnetic field sensors are used chiefly for monitoring the piston position on cylinders and grippers. The sensor detects the field from the magnet embedded in the piston.

Thanks to non-contacting position detection, electronic magnetic field sensors from Balluff function reliably and without wear, with no contact erosion, no bouncing, no sticking and just one switching point.

The piston position is reliably detected even at high traverse speeds.

➔ **Increase function reliability and uptime for your machines**



### Mini-sensors for mini-actuators

Balluff offers ideal solutions for short-stroke cylinders and mini-grippers. The mini cylinder switches from Balluff are among the smallest on the market and have a highly precise switching point. The sensor achieves maximum precision, even over short switching distances!

➔ **Better integration options**



### The right sensor for any cylinder

Virtually any cylinder size and manufacturer can be covered with the small number of designs as well as fastening and mounting materials. A special sensing element means Balluff sensors can be used on any cylinder from virtually any manufacturer.

➔ **Reduced costs: fewer types for universal use**

# Sensors for Pneumatic Cylinders

## Contents



**New:**  
 BMF 235 – the standard  
 for every T-slot  
 Page **6/7**

### Sensors with mounting system or compact sensors

Which sensor is ideal for your application?

	Sensors with mounting system	Compact sensors
Would you like to use just one sensor for a variety of cylinder types?	<input checked="" type="checkbox"/> Reduce type numbers – one for all!	<input type="checkbox"/>
Do you need to ensure quick and easy changeout of sensors?	<input checked="" type="checkbox"/> Switching point remains the same	<input type="checkbox"/>
Do you always use the same standard cylinder type (T- or C-slot)?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Simple to install, compact

**Our standard sensors with unique mounting system**  
 BMF magnetic field sensors with unique mounting system have a captive switching point and are extremely versatile.

**Compact sensors**  
 Sensors with integrated holder feature compact design and ease of installation.

Page **4/5**

T-slot  
 C-slot

Page **6/7**  
 Page **8/9**



**Cylinder sensors for special applications**

Page **10**

**BMF V-Twin – clever, low-cost connector concept and other accessories**

Page **11**

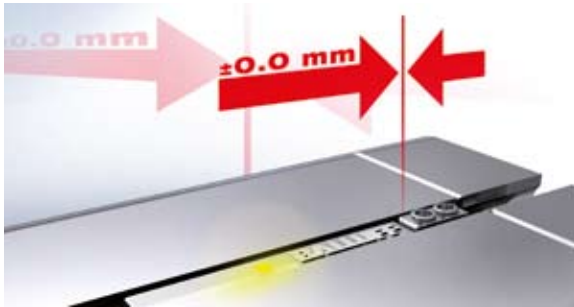
**New ordering code and part number**

Page **12**

## Standard Sensors for Pneumatic Cylinders

Flexible position detection with our standard sensors and the unique mounting system

### Captive switching point



- The switching point is set just once and remains intact even when replacing the sensor.
- Simplest replacement of sensors, with no readjustment necessary.
- Increase the function reliability of your equipment. Replacement is significantly easier and more secure even at inaccessible locations.

### One for all



- By selecting the right mounting bracket you can adapt these sensors to virtually every pneumatic cylinder.
- All-purpose types reduce costs and save storage space.
- BMF 303 system for miniaturized actuators
- BMF 305 system for larger actuators
- BMF 103 system for use on mini-grippers and in short-stroke cylinders.









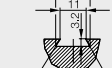
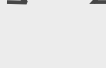
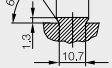



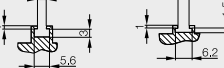




### Customer-specific solutions



**Mounting bracket + sensor  
+ installation  
= package**

- You require a constant supply of products.
- We will deliver the right combination already assembled, on request.
- Any cable length is possible.

**more added value**

System		
Dimensions in mm (LxWxH)		
Unique features		
<b>Part number of the most common types</b>		
Connector versions M8x1 with rotary terminal nut and cable length of 30 cm		
PNP	Normally open	
	Normally closed	
NPN	Normally open	
	Normally closed	
Cylinder profile	Example	
 C-slot (Size 10 slot)	Festo, Sommer, Bosch	
 C-slot (Round slot)	SMC, Bimba, Schunk	
 T-slot	General	
 Round cylinder	General	
 Trapezoidal slot	Bosch, Parker, Norgren	
 Trapezoidal guide	Bosch	
 C-slot Large	Numatics, Norgren	
 with rail/ SMC slot-A and slot-B	SMC	
 Profile cylinder and tie bar up to 6.5 mm	General	
 Profile cylinder and tie bar up to 17 mm	General	
 Green series profile cylinders	Bosch	



**For BMF 303, BMF 305 and BMF 103:**

<b>BMF 303</b> 4.5x2.9x21.6 <b>For miniaturized actuators</b> – Maximum precision – Disappears into the slot – Version for radially aligned magnets, page 10	<b>BMF 305</b> 10.5x6.5x33.5 <b>For larger actuators</b> Also available as – Weld immune, page 10 – Metal housing, page 10 – Temperature-resistant, page 10 – Reed	<b>BMF 103 system</b> 16x2.8x4.9 <b>Optimized for short-stroke cylinders and mini-grippers</b> – Shortest cylinder switch on the market – Version for radially aligned magnets, page 10
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Supply voltage U <sub>B</sub>	10...30 V DC
Ambient temperature range T <sub>a</sub>	–25...+85 °C
Degree of protection acc. to IEC 60529	IP 67
Housing material	Plastic housing
Connection	Connector versions with M5, M8 and M12, cable versions (various lengths)
Approval	CE, UL

BMF 303K-PS-C-2A-SA2-S49-00,3	BMF 305K-PS-C-2-SA2-S49-00,3	BMF 103K-PS-C-2A-SA2-S49-00,3
BMF 303K-PO-C-2A-SA2-S49-00,3	BMF 305K-PO-C-2-SA2-S49-00,3	BMF 103K-PO-C-2A-SA2-S49-00,3
BMF 303K-NS-C-2A-SA2-S49-00,3	BMF 305K-NS-C-2-SA2-S49-00,3	BMF 103K-NS-C-2A-SA2-S49-00,3
BMF 303K-NO-C-2A-SA2-S49-00,3	BMF 305K-NO-C-2-SA2-S49-00,3	

Part number			
BMF 303-HW-31 Tough	BMF 303-HW-30 compact		BMF 103-HW-87 Tough
BMF 303-HW-97 Tough	BMF 303-HW-28 compact		BMF 103-HW-42 Compact, hollow screw
BMF 303-HW-33 Tough	BMF 303-HW-40 compact	BMF 305-HW-20 Hollow screw	BMF 103-HW-85 Tough
		BMF 305-HW-98 Hollow screw	BMF 103-HW-41 Compact Hollow screw
BMF 303-HW-59 and tube cuff <sup>1)</sup>		BMF 305-HW-24 and tube cuff <sup>1)</sup>	BMF 103-HW-43
BMF 303-HW-44		BMF 305-HW-25	
BMF 303-HW-80		BMF 305-HW-27	
BMF 303-HW-62	BMF 305-HW-32 A	BMF 305-HW-92 B	
BMF 303-HW-51 (BMF 303-HW-60 2)	BMF 305-HW-26 Slot version	BMF 305-HW-99 Hexagon socket	
BMF 303-HW-59 and tube cuff <sup>1)</sup>	BMF 305-HW-21 and BMF 21-HW-8		
BMF 303-HW-102	BMF 305-HW-21 and BMF 21-HW-10		
	BMF 305-HW-64		



<sup>1)</sup> Tube cuff matrix for round cylinders

Piston dia. in mm	BMF 303-HW-59 with BMF tube cuff Size_	BMF 305-HW-24 with BMF tube cuff Size_
up to 8	–	0
8 to 10	1	1
12	2	1
16	2	1
20	2	2
25	2	2
32	3	3
40	4	4
50	5	5
63	6	6
80	7	7
110	9	9

<sup>2)</sup> Addition of the HW-51 with the HW-60

for fastening the sensor next to the slot. This lets you attach two sensors to the cylinder even when space is tight.



2x HW-51 + 2x HW-60 or 2x HW-51 + 1x HW-60

## Sensors for Pneumatic Cylinders

BMF 235

# BMF 235 – the new standard for every T-slot

**more added value**



Ultrabright LED

- Reliable detection of switching function from far away (25 m in bright factory building)



New mounting concept

- Solid hold in the slot, sensor cannot be wrenched from the slot.



Knurled screw



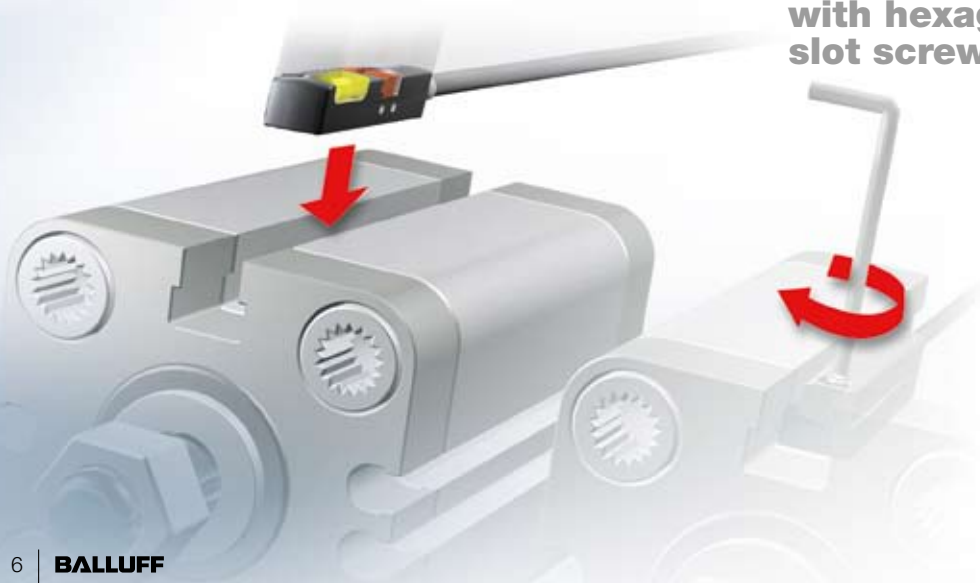
- Sensor screws in firmly, extremely secure hold in any slot (e.g. Parker, Festo, SMC, Bosch)



Minimum length: 23 mm!  
8 mm shorter than previous model!

- Can also be used in space-critical applications


**Can be installed from above,  
easy to install  
with hexagon socket or  
slot screwdriver**



## Sensors for Pneumatic Cylinders

Position detection with compact sensors for T-slot



Series	<b>BMF 307</b>		<b>BMF 235</b>	
Dimensions in mm (LxWxH)	4.4x6.2x29		5.5x5x23.5	
Unique features	<b>Secure hold in the slot</b> – Design is adapted to the slot. – Also available as reed switch		<b>The new benchmark for the T-slot</b> – Extremely short design – Extremely bright LED – Solid hold in any T-slot – Can be installed from above	
<b>Part number of the most common types</b>				
Connector versions M8x1 with rotary terminal nut and cable length of 30 cm				
PNP	Normally open	BMF 307K-PS-C-2-SA2-S49-00,3	BMF 235K-PS-C-2A-SA2-S49-00,3	
	Normally closed	BMF 307K-PO-C-2-SA2-S49-00,3	BMF 235K-PO-C-2A-SA2-S49-00,3	
NPN	Normally open	BMF 307K-NS-C-2-SA2-S49-00,3	BMF 235K-NS-C-2A-SA2-S49-00,3	
	Normally closed	BMF 307K-NO-C-2-SA2-S49-00,3	BMF 235K-NO-C-2A-SA2-S49-00,3	
<b>Cylinder profile</b>	<b>Example</b>	<b>Installation</b>		
 T-slot	General	Slide-in		Can be installed from above

### For compact sensors:

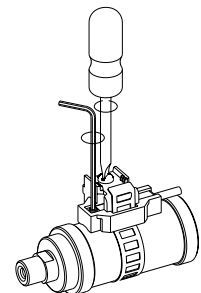
Supply voltage $U_b$	10...30 V DC
Ambient temperature range $T_a$	-25...+85 °C
Degree of protection as per IEC 60529	IP 67
Housing material	Plastic housing
Connection	Connector versions with M5, M8 and M12, cable versions (various lengths)
Approval	CE, UL

## Flush mount in the slot

- Profit from the highly compact design. Now sensors can be installed flush in the slot and virtually disappear in it.

## Flexible, simple installation

- BMF 307
  - Slides into the slot
  - These sensors are adapted to the slot design and provide perfect holding power.
- BMF 235
  - Can be installed in the slot from above.
  - These sensors can also be installed if sliding in from the end is not possible, such as when a cylinder cover is in the way.



### BMF T-slot sensors on round cylinders Mounting bracket suitable for BMF 307 and BMF 235

Piston dia. in mm	Mounting bracket
8...25	BMF 307-HW-73 -115
25...63	BMF 307-HW-73 -255
63...130	BMF 307-HW-73-460

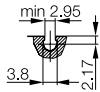
## Sensors for Pneumatic Cylinders

BMF 204 and BMF 214

# BMF 204 and BMF 214 – the new standard for C-slots

more added value

**Festo slot  
(BMF 204)**



**SMC slot  
(BMF 214)**



The design is adapted exactly to the slot, the sensor can be inserted into the slot

→ "Rock-solid" hold in any C-slot

BMF 204 and BMF 214 have the same electronics and only have mechanical differences.



Flush-fitting, the sensor vanishes in the slot.

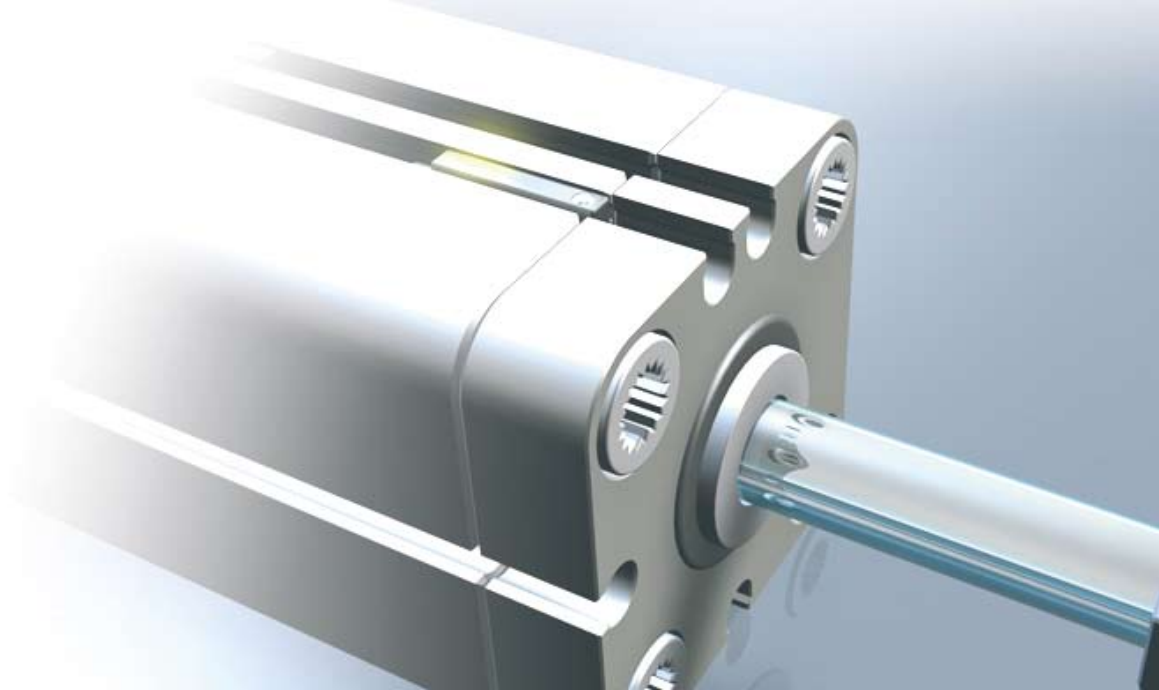
→ Can also be used in space-critical applications



Miniature design, extremely short

→ Optimum solution for every gripper and short-stroke cylinder

**Extremely secure hold  
in any C-slot**





# Sensors for Pneumatic Cylinders

## Position detection with compact sensors for C-slot





Series	BMF 204	BMF 214	BMF 273
Dimensions in mm (LxWxH)	4.5x3.7x16.8	4.5x3.9x16.8	4.8x2.9x25.7
Unique features	<b>Secure hold, very short</b> <ul style="list-style-type: none"> <li>– Design is adapted to the slot.</li> <li>– Super hold in the slot</li> <li>– Extremely short design</li> <li>– Also for use in mini-grippers and short-stroke cylinders</li> </ul>	<b>Secure hold, very short</b> <ul style="list-style-type: none"> <li>– Design is adapted to the slot.</li> <li>– Super hold in the slot</li> <li>– Extremely short design</li> <li>– Also for use in mini-grippers and short-stroke cylinders</li> </ul>	<b>Simple to install</b> <ul style="list-style-type: none"> <li>– Can be installed from above</li> <li>– Fits in any C-slot</li> </ul>

### Part number of the most common types

Connector versions M8x1 with rotary terminal nut and cable length of 30 cm

PNP	Normally open	BMF 204K-PS-C-2A-SA2-S49-00,3	BMF 214K-PS-C-2A-SA2-S49-00,3	BMF 273K-PS-C-2A-SA2-S49-00,3
	Normally closed			BMF 273K-PO-C-2A-SA2-S49-00,3
NPN	Normally open			BMF 273K-NS-C-2A-SA2-S49-00,3
	Normally closed			BMF 273K-NO-C-2A-SA2-S49-00,3

Cylinder profile	Example	Installation	
 C-slot (Size 10 slot)	Festo, Sommer	Slide-in	Can be installed from above
 C-slot (Round slot)	SMC, Bimba, Schunk	Slide-in	Can be installed from above

### For compact sensors:

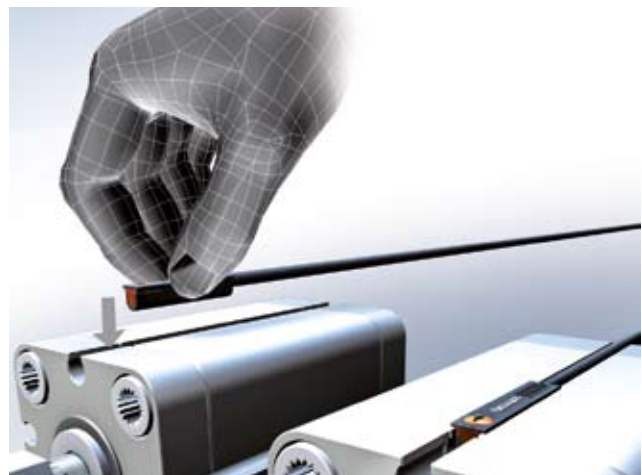
Supply voltage $U_B$	10...30 V DC
Ambient temperature range $T_a$	-25...+85 °C
Degree of protection as per IEC 60529	IP 67
Housing material	Plastic housing
Connection	Connector versions with M5, M8 and M12, cable versions (various lengths)
Approval	CE, UL

## Flush mount in the slot

- Profit from the highly compact design Now sensors can be installed flush in the slot and virtually disappear in it.

## Flexible, simple installation

- BMF 204/BMF 214
  - Slides into the slot
  - These sensors are adapted to the design of the slot and provide perfect holding power.
- BMF 273
  - Can be installed in the slot from above.
  - These sensors can also be installed if sliding in from the end is not possible, such as when a cylinder cover is in the way.



## Sensors for special applications



Series	<b>BMF 315M</b>	<b>BMF 305M</b>	<b>BMF 32</b>
Unique features	The smallest weld immune cylinder switch in the world	Flexible, different brackets available	Specialist for round cylinders and cylinder with trapezium slot
<b>Metal housing</b>		<b>M12 direct connector</b>	<b>M12 direct connector</b>
PNP	Normally open	BMF 305M-PS-C-2-S4	BMF 32M-PS-C-2-S4
<b>Weld immune, with metal housing</b>	<b>M8 connector with 30 cm cable</b>	<b>M12 direct connector</b>	
PNP	Normally open	BMF 305M-PS-W-2-S4	
<b>Weld immune with LED in connector, with metal housing</b>	<b>M12 connector with 30 cm cable</b>		<b>M12 direct connector</b>
PNP	Normally open		BMF 32M-PS-W-2-S4
<b>Temperature-resistant up to 105 °C, with metal housing</b>	<b>M8 connector with 30 cm cable</b>	<b>M8 direct connector</b>	
PNP	Normally open	BMF 305M-PS-C-2-SA4-S49	



### Weld immune

The series BMF 305M/315M/32M-..-W.. are suitable for extreme applications. Metal housing is resistant to weld spatter. Welding currents less than 25 kA do not cause the sensor to malfunction. The output state of the sensor is stored during AC welding.

### Temperature-resistant up to 105 °C

Reliable position detection, even at high temperatures.

### Special sensors for radially magnetized magnets

Axially magnetized magnets are used in virtually all pneumatic cylinders and grippers. Radially magnetized magnets are only used in exceptional cases, e.g. grippers manufactured by Schunk. Balluff offers special versions of the BMF 103 and BMF 303 in a white housing for clear identification.



Series	<b>BMF 303...SA7</b>	<b>BMF 103...SA7</b>
Unique features	for radially magnetized magnets	for radially magnetized magnets
<b>Special sensors</b>	<b>M8 connector with 30 cm cable</b>	<b>M8 connector with 30 cm cable</b>
PNP	Normally open	BMF 103K-PS-C-2A-SA7-S49-00,3



Series	<b>BMF 10E</b>	<b>BMF 21</b>	<b>Micro BIL</b>
Unique features	The specialist for the foods industry with one-piece housing made of stainless steel (V4A)	The classic for cylinders and tie-bars, DUO rails, round cylinders and profile cylinders	Absolute position detection on mini-grippers and short-stroke cylinders – Easy to install in the T-slot – Analog output signal
<b>Stainless steel</b>	<b>M8 direct connector</b>		
PNP	Normally open, sensor Mounting bracket		
<b>For cylinders with tie-bars</b>		<b>M8 direct connector</b>	
PNP	Normally open	BMF 21K-PS-C-2-S49	
<b>Absolute position detection</b>			<b>4-pin M8 connector</b>
Voltage: 0...10 V or Current: 4...20 mA			BIL EDO-B010P-02/30-S75

## Sensors for Pneumatic Cylinders

### BMF V-Twin and accessories

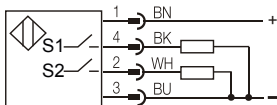
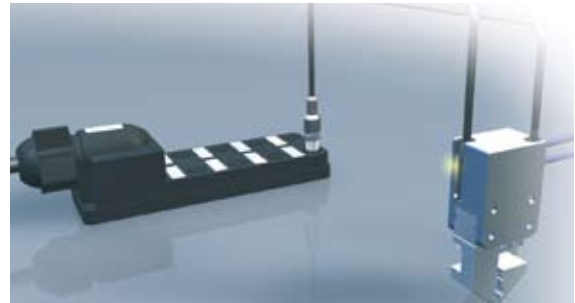
# BMF V-Twin – clever, low-cost connector concept

#### Two sensors, one connector



- ➔ Save time and reduce costs during installation.
- ➔ Low initial costs compared to two individual sensors:
  - BMF 204/214** approx. 20 % savings
  - BMF 303/305** approx. 30 % savings
  - BMF 307** approx. 35 % savings
- ➔ Space in the splitter box for twice as many sensors.

	4-pin M12 connector with 30 cm cable	4-pin M8 connector with 30 cm cable
<b>BMF 103 V-Twin</b>		BMF 103K-PS-C-2A-SA95-S75-00,3
<b>BMF 204 V-Twin</b>	BMF 204K-PS-C-2A-SA95-S4-00,3	BMF 204K-PS-C-2A-SA95-S75-00,3
<b>BMF 214 V-Twin</b>	BMF 214K-PS-C-2A-SA95-S4-00,3	BMF 214K-PS-C-2A-SA95-S75-00,3
<b>BMF 235 V-Twin</b>	BMF 235K-PS-C-2A-SA95-S4-00,3	BMF 235K-PS-C-2A-SA95-S75-00,3
<b>BMF 303 V-Twin</b>	BMF 303K-PS-C-2A-SA95-S4-00,3	BMF 303K-PS-C-2A-SA95-S75-00,3
<b>BMF 305 V-Twin</b>	BMF 305K-PS-C-2-SA95-S4-00,3	BMF 305K-PS-C-2-SA95-S75-00,3
<b>BMF 307 V-Twin</b>	BMF 307K-PS-C-2-SA95-S4-00,3	BMF 307K-PS-C-2-SA95-S75-00,3
<b>BMF 315 V-Twin</b>	BMF 315M-PS-W-2-SA95-SA4-00,3	



Wiring diagram for V-Twin connector

#### Accessories

##### Cable clip

For cable routing and strain relief for  
 T-slot: BAM CC-XA-028-T05-P  
 C-slot: BAM CC-XA-025-C03-P  
 Packaging unit: 50



##### Hex Key Set

Mat. no.: 123264



##### BMF Hex Key

Mat. no.: 139868

**New:** Compatible cable clips are now delivered with C and T-slot sensors!

**more added value**  
 Do you require a constant supply of products?  
 We will deliver the right combination in a single packaging unit.



➔ [www.balluff.com](http://www.balluff.com)  
 See the "Industrial Networking" catalogue for more Balluff products used for connecting to controls.

# Sensors for Pneumatic Cylinders

New ordering code and part number

# BALLUFF

sensors worldwide

## Benefits to you

- Clear identification without special characters
- Short seven-digit format can be managed in any IT system
- Easy ordering with ordering code or Part number

Series		Part number	Ordering code	Part number	Ordering code	Page
<b>BMF 303</b>	PNP normally open	<b>M8 connector with 30 cm cable</b> BMF 303K-PS-C-2A-SA2-S49-00,3	<b>BMF0043</b>	<b>Variation with 2 m PUR cable</b> BMF 303K-PS-C-2A-PU-02	<b>BMF003U</b>	5
	PNP normally closed	BMF 303K-PO-C-2A-SA2-S49-00,3	<b>BMF0039</b>	BMF 303K-PO-C-2A-PU-02	<b>BMF0036</b>	5
	NPN normally open	BMF 303K-NS-C-2A-SA2-S49-00,3	<b>BMF0034</b>	BMF 303K-NS-C-2A-PU-02	<b>BMF0031</b>	5
<b>BMF 305</b>	NPN normally closed	BMF 303K-NO-C-2A-SA2-S49-00,3	<b>BMF002Y</b>	BMF 303K-NO-C-2A-PU-02	<b>BMF002U</b>	5
	PNP normally open	BMF 305K-PS-C-2-SA2-S49-00,3	<b>BMF005L</b>	BMF 305K-PS-C-2-PU-02	<b>BMF0056</b>	5
	PNP normally closed	BMF 305K-PO-C-2-SA2-S49-00,3	<b>BMF0055</b>	BMF 305K-PO-C-2-PU-02	<b>BMF0052</b>	5
<b>BMF 103</b>	NPN normally open	BMF 305K-NS-C-2-SA2-S49-00,3	<b>BMF0050</b>	BMF 305K-NS-C-2-PU-02	<b>BMF004W</b>	5
	PNP normally closed	BMF 305K-NO-C-2-SA2-S49-00,3	<b>BMF004U</b>	BMF 305K-NO-C-2-PU-02	<b>BMF004P</b>	5
	PNP normally open	BMF 103K-PS-C-2A-SA2-S49-00,3	<b>BMF001L</b>	BMF 103K-PS-C-2A-PU-02	<b>BMF001E</b>	5
<b>BMF 204</b>	PNP normally closed	BMF 103K-PO-C-2A-SA2-S49-00,3	<b>BMF0015</b>	BMF 103K-PO-C-2A-PU-02	<b>BMF0013</b>	5
	PNP normally open	BMF 103K-NS-C-2A-SA2-S49-00,3	<b>BMF0011</b>	BMF 103K-NS-C-2A-PU-02	<b>BMF000Y</b>	5
	PNP normally open	BMF 204K-PS-C-2A-SA2-S49-00,3	<b>BMF0002</b>	BMF 204K-PS-C-2A-PU-02	<b>BMF0001</b>	9
<b>BMF 214</b>	PNP normally open	BMF 214K-PS-C-2A-SA2-S49-00,3	<b>BMF00A2</b>	BMF 214K-PS-C-2A-PU-02	<b>BMF00A1</b>	9
	PNP normally open	BMF 273K-PS-C-2A-SA2-S49-00,3	<b>BMF002R</b>	BMF 273K-PS-C-2A-PU-02	<b>BMF002K</b>	9
<b>BMF 273</b>	PNP normally closed	BMF 273K-PO-C-2A-SA2-S49-00,3	<b>BMF002J</b>			9
	NPN normally open	BMF 273K-NS-C-2A-SA2-S49-00,3	<b>BMF002F</b>	BMF 273K-NS-C-2A-PU-02	<b>BMF002C</b>	9
	NPN normally closed	BMF 273K-NO-C-2A-SA2-S49-00,3	<b>BMF002A</b>			9
<b>BMF 307</b>	PNP normally open	BMF 307K-PS-C-2-SA2-S49-00,3	<b>BMF0072</b>	BMF 307K-PS-C-2-PU-02	<b>BMF006U</b>	7
	PNP normally closed	BMF 307K-PO-C-2-SA2-S49-00,3	<b>BMF006T</b>	BMF 307K-PO-C-2-PU-02	<b>BMF006M</b>	7
	NPN normally open	BMF 307K-NS-C-2-SA2-S49-00,3	<b>BMF006L</b>	BMF 307K-NS-C-2-PU-02	<b>BMF006H</b>	7
<b>BMF 235</b>	NPN normally closed	BMF 307K-NO-C-2-SA2-S49-00,3	<b>BMF006E</b>	BMF 307K-NO-C-2-PU-02	<b>BMF0069</b>	7
	PNP normally open	BMF 235K-PS-C-2A-SA2-S49-00,3	<b>BMF00C4</b>	BMF 235K-PS-C-2A-PU-02	<b>BMF00AR</b>	7
	PNP normally closed	BMF 235K-PO-C-2A-SA2-S49-00,3	<b>BMF00C6</b>	BMF 235K-PO-C-2A-PU-02	<b>BMF00AT</b>	7
	NPN normally open	BMF 235K-NS-C-2A-SA2-S49-00,3	<b>BMF00C2</b>	BMF 235K-NS-C-2A-PU-02	<b>BMF00AU</b>	7
	NPN normally closed	BMF 235K-NO-C-2A-SA2-S49-00,3	<b>BMF00C3</b>	BMF 235K-NO-C-2A-PU-02	<b>BMF00AW</b>	7
<b>Special sensors</b>						
<b>Metal housing</b>	PNP normally open	<b>M12 connector</b> BMF 305M-PS-C-2-S4	<b>BMF008E</b>	<b>M12 connector</b> BMF 305M-PS-C-2-S49	<b>BMF008F</b>	10
	PNP normally open	BMF 32M-PS-C-2-S4	<b>BMF0087</b>	BMF 32M-PS-C-2-S49	<b>BMF0088</b>	10
<b>Weld immune, with metal housing</b>	PNP normally open	BMF 32M-PS-W-2-S4	<b>BMF008A</b>			10
	PNP normally open	BMF 305M-PS-W-2-S4	<b>BMF0067</b>			10
<b>Temperature-resistant, with metal housing For cylinders with tie-bars Stainless steel</b>	PNP normally open			BMF 305M-PS-C-2-SA4-S49	<b>BMF0066</b>	10
	PNP normally open			BMF 21K-PS-C-2-S49	<b>BMF0029</b>	10
	PNP normally open			BMF 10E-PS-D-2-SA1-S49	<b>BMF001Z</b>	10
<b>Weld immune, with metal housing Weld immune with LED in connector, with metal housing</b>	PNP normally open	<b>M12 connector with 30 cm cable</b> BMF 315M-PS-W-2-S4 -00,3	<b>BMF0081</b>	<b>M8 connector with 30 cm cable</b> BMF 315M-PS-W-2-S49-00,3	<b>BMF0082</b>	10
	PNP normally open	BMF 315M-PS-W-2-SA4-S4-00,3	<b>BMF00C1</b>			10
<b>Temperature-resistant, with metal housing Special sensors for radially magnetized magnets</b>	PNP normally open	BMF 315M-PS-D-2-SA3-S49-00,3	<b>BMF007Y</b>			10
	PNP normally open			BMF 303K-PS-C-2A-SA7-S49-00,3	<b>BMF004C</b>	10
<b>Absolute position detection</b>	PNP normally open			BMF 103K-PS-C-2A-SA7-S49-00,3	<b>BMF001P</b>	10
	Output current or voltage	<b>4-pin M8 connector</b> BIL ED0-B010P-02/30-S75	<b>BIL0002</b>			10
<b>BMF V-Twin</b>	PNP normally open	<b>4-pin M12 connector with 30 cm cable</b> BMF 303K-PS-C-2A-SA95-S4-00,3	<b>BMF004E</b>	<b>4-pin M8 connector with 30 cm cable</b> BMF 303K-PS-C-2A-SA95-S75-00,3	<b>BMF004F</b>	11
	PNP normally open	BMF 305K-PS-C-2-SA95-S4-00,3	<b>BMF005Z</b>	BMF 305K-PS-C-2-SA95-S75-00,3	<b>BMF0060</b>	11
	PNP normally open	BMF 307K-PS-C-2-SA95-S4-00,3	<b>BMF0076</b>	BMF 307K-PS-C-2-SA95-S75-00,3	<b>BMF0077</b>	11
	PNP normally open	BMF 315M-PS-W-2-SA95-S4-00,3	<b>BMF0084</b>			11
	PNP normally open			BMF 103K-PS-C-2A-SA95-S75-00,3	<b>BMF001R</b>	11
	PNP normally open	BMF 204K-PS-C-2A-SA95-S4-00,3	<b>BMF0005</b>	BMF 204K-PS-C-2A-SA95-S75-00,3	<b>BMF0006</b>	11
	PNP normally open	BMF 214K-PS-C-2A-SA95-S4-00,3	<b>BMF00A4</b>	BMF 214K-PS-C-2A-SA95-S75-00,3	<b>BMF00A5</b>	11
PNP normally open	BMF 235K-PS-C-2A-SA95-S4-00,3	<b>BMF00C9</b>	BMF 235K-PS-C-2A-SA95-S75-00,3	<b>BMF00CA</b>	11	

Series		Part number	Ordering code	Page	
<b>Cable clips</b>	T-slot	BAM CC-XA-028-T05-P	<b>BAM01EA</b>	11	
	C-slot	BAM CC-XA-025-C03-P	<b>BAM01EC</b>	11	
<b>Mounting bracket BMF 303</b>		BMF 303-HW-28	<b>BAM00KZ</b>	5	
		BMF 303-HW-30	<b>BAM00LO</b>	5	
		BMF 303-HW-31	<b>BAM00L1</b>	5	
		BMF 303-HW-33	<b>BAM00L2</b>	5	
		BMF 303-HW-40	<b>BAM00L4</b>	5	
		BMF 303-HW-44	<b>BAM00L5</b>	5	
		BMF 303-HW-51	<b>BAM00L6</b>	5	
		BMF 303-HW-59	<b>BAM00L7</b>	5	
		BMF 303-HW-60	<b>BAM00L8</b>	5	
		BMF 303-HW-62	<b>BAM00LA</b>	5	
		BMF 303-HW-80	<b>BAM00LF</b>	5	
		BMF 303-HW-97	<b>BAM01F0</b>	5	
		BMF 303-HW-102	<b>BAM00CC</b>	5	
	<b>Mounting bracket BMF 305</b>		BMF 305-HW-20	<b>BAM00LJ</b>	5
			BMF 305-HW-21	<b>BAM00LL</b>	5
			BMF 305-HW-24	<b>BAM00LP</b>	5
			BMF 305-HW-25	<b>BAM00LR</b>	5
		BMF 305-HW-26	<b>BAM00LT</b>	5	
		BMF 305-HW-27	<b>BAM00LU</b>	5	
		BMF 305-HW-32	<b>BAM00LW</b>	5	
		BMF 305-HW-64	<b>BAM00M9</b>	5	
		BMF 305-HW-92	<b>BAM01C4</b>	5	
		BMF 305-HW-98	<b>BAM01EZ</b>	5	
		BMF 305-HW-99	<b>BAM01EY</b>	5	
		BMF 21-HW-8	<b>BAM00KY</b>	5	
		BMF 21-HW-10	<b>BAM00KT</b>	5	
<b>Mounting bracket BMF 103</b>			BMF 103-HW-41	<b>BAM00K8</b>	5
			BMF 103-HW-42	<b>BAM00K9</b>	5
			BMF 103-HW-43	<b>BAM00KA</b>	5
			BMF 103-HW-85	<b>BAM00KN</b>	5
		BMF 103-HW-87	<b>BAM00KP</b>	5	
<b>Mounting bracket BMF 307</b>		BMF 307-HW-73 -115	<b>BAM00MM</b>	7	
		BMF 307-HW-73 -255	<b>BAM00MN</b>	7	
		BMF 307-HW-73 -460	<b>BAM01E3</b>	7	
<b>Mounting bracket BMF 10E</b>		BMF 10E-HW-19	<b>BAM00KR</b>	10	

Series	Size	Part number	Ordering code	Page
<b>Tube cuffs BMF 303-HW-59</b>	1	Tube cuff BMF size 1	<b>BAM00N3</b>	5
	2	Tube cuff BMF size 2	<b>BAM00N4</b>	5
	3	Tube cuff BMF size 3	<b>BAM00N5</b>	5
	4	Tube cuff BMF size 4	<b>BAM00N6</b>	5
	5	Tube cuff BMF size 5	<b>BAM00N7</b>	5
	6	Tube cuff BMF size 6	<b>BAM00N8</b>	5
	7	Tube cuff BMF size 7	<b>BAM00N9</b>	5
	9	Tube cuff BMF size 9	<b>BAM01F4</b>	5
	<b>Tube cuffs BMF 305-HW-24</b>	0	Tube cuff BMF size 0	<b>BAM00N2</b>
1		Tube cuff BMF size 1	<b>BAM00N3</b>	5
2		Tube cuff BMF size 2	<b>BAM00N4</b>	5
3		Tube cuff BMF size 3	<b>BAM00N5</b>	5
4		Tube cuff BMF size 4	<b>BAM00N6</b>	5
5		Tube cuff BMF size 5	<b>BAM00N7</b>	5
6		Tube cuff BMF size 6	<b>BAM00N8</b>	5
7		Tube cuff BMF size 7	<b>BAM00N9</b>	5
9		Tube cuff BMF size 9	<b>BAM01F4</b>	5

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