

Magnetic Sensor for T-slots with Multiple Switchpoints

60 mm detection area with two teachable outputs up to eight switchpoints with IO-Link

- 10 mm more traverse distance than other magnetic sensors
- Sensor head length 27 mm, with remote electronics
- PNP/NPN NO/NC; IO-Link PNP NO
- Pigtail M12, M8 and 2 m cable
- Temperature range -25 to +80 °C







For cylinders, grippers and valves a teachable magnetic sensor with two switch points replaces two standard sensors. For longer cylinders the additional switch point can be used for example for reducing the air pressure before the end of stroke position of the cylinder. IO-Link offers up to eight switchpoints and along with individual hysteresis settings.

With a detection area of 60 mm, the sensor is ideally located in the middle of the cylinder offering the closest possible switchpoints. The teachable magnetic sensor for C-slots offers 10 mm more detection area vs standard offerings.





BVLLUFF





Series	BMF 235	BMF 235	BMF 235
Measuring range	-30+30 mm	-30+30 mm	-30+30 mm
Programmable switchpoints	2 (8 with IO-Link)	2 (8 with IO-Link)	2
PNP, NO	BMF00KH	BMF00L6	
NPN, NO	BMF00L3	BMF00L8	
PNP, NC	BMF00L2	BMF00L7	
NPN, NC	BMF00L4	BMF00L9	
PNP, NO, with @ IO-Link	BMF00L5	BMF00LA	BMF00LC
Supply voltage U _B	1030 V DC	1030 V DC	1030 V DC
Voltage drop U _d	1.5 V	1.5 V	1.5 V
Rated insulation voltage U _i	75 V DC	75 V DC	75 V DC
Rated operating current I _e	100 mA	100 mA	100 mA
No-load supply current I ₀ max.	≤ 10 mA	≤ 10 mA	≤ 10 mA
Polarity reversal protected/short-circuit protected	Yes/yes	Yes/yes	Yes/yes
Reproducibility max.	0.2 mm	0.2 mm	0.2 mm
Temperature drift of switch-on point of I H _n I typ	o. 1 mm	1 mm	1 mm
Hysteresis typ. Standard versions	0.94 mm	0.94 mm	
IO-Link versions	Adjustable	Adjustable	Adjustable
On/off delay	≤ 25 ms	≤ 25 ms	≤ 25 ms
Ambient temperature T _a	−25+80 °C	−25+80 °C	−25+80 °C
Degree of protection per IEC 60529	IP67	IP67	IP67
Material Housing	PA 12	PA 12	PA 12
Connection	2 m PUR cable,	0.3 m PUR cable	0.3 m PUR cable
	$4 \times 0.07 \text{ mm}^2$	with M8 connector,	with M12 connector,
		4-pin	4-pin
Assembly	Can be installed from above	Can be installed from above	Can be installed from above
Slot	ご T-slot	ご T-slot	ご T-slot



Accessories

Description	Ethernet/IP module with	USB IO-Link
	IO-Link functionality	master tool
O-Link	BNI006A	BNI0073

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