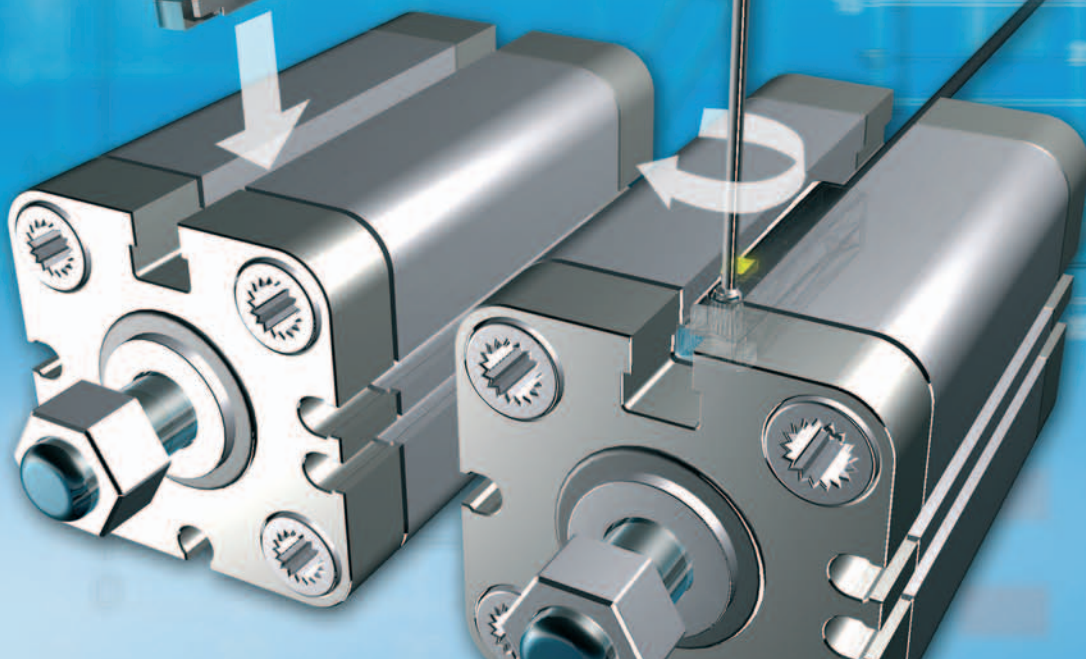
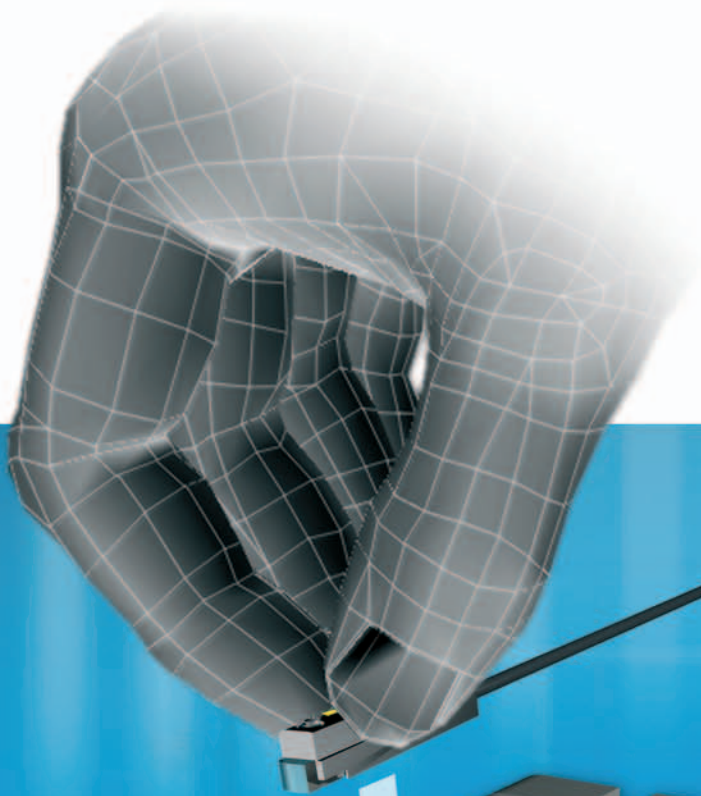


BALLUFF

Cylinder Switches
... for insertion from above

BMF 315



BMF 315 – the first choice for pneumatic cylinders with T-slot

The T-slot has now become established as the standard slot type for pneumatic cylinders.

To shorten assembly time, the ability to install from above is increasingly demanded.

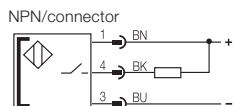
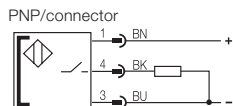
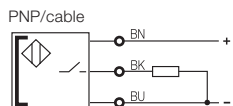
The BMF 315 meets every requirement and stands out with its reliable switching characteristics and functional reserve.

Benefits

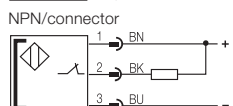
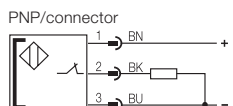
- Proven electronics from the BMF line of sensors
- Can be installed in the T-slot from above
- Rugged, compact, low-profile housing
- Extremely reliable switching behavior

Wiring diagrams

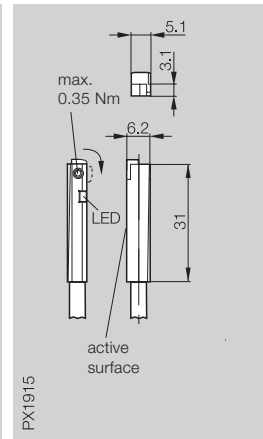
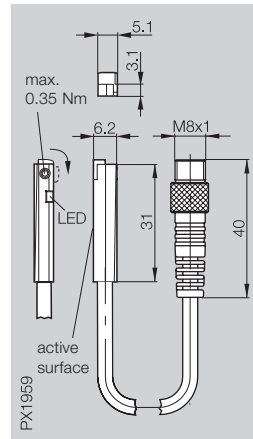
Normally-open



Normally-closed



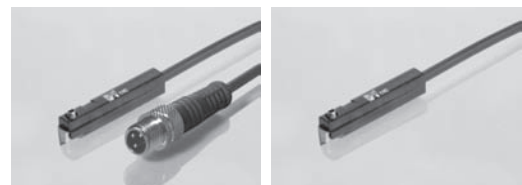
Series	BMF 315	BMF 315
Version	connector for direct connection to distribution box	



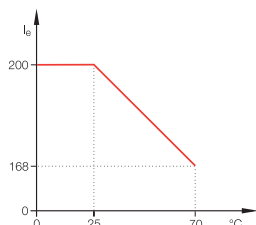
PNP	Normally-open	BMF 315K-PS-C-2-SA2-S49-	BMF 315K-PS-C-2-PU-
	Normally-closed	BMF 315K-PO-C-2-SA2-S49-	
NPN	Normally-open	BMF 315K-NS-C-2-SA2-S49-	
	Normally-closed	BMF 315K-NO-C-2-SA2-S49-	
Rated operating field strength H _n		1.2 kA/m	1.2 kA/m
Assured operating field strength H _a		≥ 2 kA/m	≥ 2 kA/m
Hysteresis of H _n		≤ 45 %	≤ 45 %
Temperature drift of turn-on point of H _n		≤ 0.3 %/°C	≤ 0.3 %/°C
On delay		≤ 0.05 ms	≤ 0.05 ms
Off delay		≤ 0.05 ms	≤ 0.05 ms
Supply voltage U _B		10...30 V DC	10...30 V DC
Voltage drop U _d		≤ 3.1 V	≤ 3.1 V
Rated insulation voltage U _i		75 V DC	75 V DC
Rated operational current I _e		200 mA*	200 mA*
No-load supply current I ₀ max.		≤ 15 mA	≤ 15 mA
Off-state current I _r		≤ 80 μA	≤ 80 μA
Protected against polarity reversal		yes	yes
Short circuit protected		yes	yes
Load capacity		≤ 1 μF	≤ 1 μF
Ambient temperature range T _a		-25...+70 °C	-25...+70 °C
Utilization category		DC 13	DC 13
Degree of protection per IEC 60529		IP 67	IP 67
Housing material		PA 66	PA 66
Connection		Cable with connector, PUR	cable, PUR
No. of wires × conductor cross section			3×0.14 mm ²
Approvals		cULus	cULus
Recommended connector		BKS-B/S 48	

Please add the cable length to the ordering code for sensors with **cable!**
PU-03 = PUR, length 3 m

Please add the cable length to the ordering code for sensors with **cable and connector!**
Standard length 0.2 m = 00.2



*Temperature load curve



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