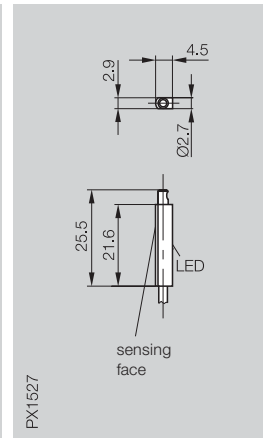
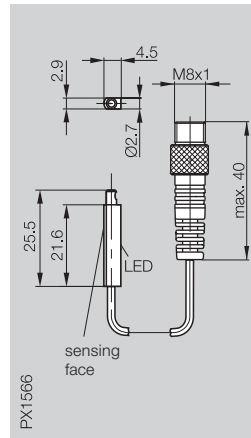
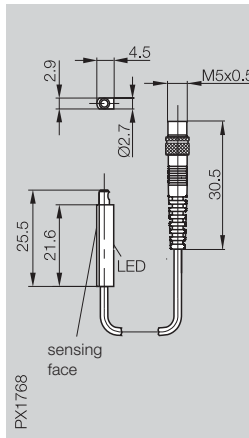


Series	BMF 303	BMF 303	BMF 303
Type	Connector M5×0.5 with rotatable union nut	Connector M8×1 with rotatable union nut	

The universal sensor for position monitoring on small grippers and cylinders. A variety of mounting brackets enables adapting to virtually every miniaturized pneumatic actuator on the market.



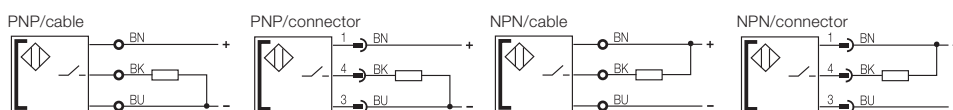
PNP	NO	BMF 303K-PS-C-2A-S26-00,3	BMF 303K-PS-C-2A-SA2-S49-00,3	BMF 303K-PS-C-2A-PU-02
	NC		BMF 303K-PO-C-2A-SA2-S49-00,3	BMF 303K-PO-C-2A-PU-02
NPN	NO	BMF 303K-NS-C-2A-S26-00,3	BMF 303K-NS-C-2A-SA2-S49-00,3	BMF 303K-NS-C-2A-PU-02
	NC		BMF 303K-NO-C-2A-SA2-S49-00,3	BMF 303K-NO-C-2A-PU-02
Rated operating field strength H _n		1.2 kA/m	1.2 kA/m	1.2 kA/m
Assured operating field strength H _a		≥ 2 kA/m	≥ 2 kA/m	≥ 2 kA/m
Hysteresis of H _n		≤ 45 %	≤ 45 %	≤ 45 %
Temperature drift of turn-on point of H _n		≤ 0.3 %/°C	≤ 0.3 %/°C	≤ 0.3 %/°C
Turn-on delay		≤ 0.07 ms	≤ 0.07 ms	≤ 0.07 ms
Turn-off delay		≤ 0.07 ms	≤ 0.07 ms	≤ 0.07 ms
Supply voltage U _B		10...30 V DC	10...30 V DC	10...30 V DC
Voltage drop U _d		≤ 2 V	≤ 2 V	≤ 2 V
Rated insulation voltage U _i		75 V DC	75 V DC	75 V DC
Rated operational current I _b		100 mA	100 mA	100 mA
No-load supply current I ₀ max.		≤ 5 mA	≤ 5 mA	≤ 5 mA
Polarity reversal protected		yes	yes	yes
Short circuit protected		yes	yes	yes
Ambient temperature range T _a		-25...+70 °C	-25...+70 °C	-25...+70 °C
Utilization category		DC 13	DC 13	DC 13
Degree of protection per IEC 60529		IP 67	IP 67	IP 67
Housing material		LCP	LCP	LCP
Connection		0.3 m cable (PUR) with connector	0.3 m cable (PUR) with connector	2 m Cable PUR
No. of wires × cross-section				3×0.10 mm ²
Approval		cULus	cULus	cULus
Recommended connector		BKS- 25	BKS- 48	

Other cable lengths on request.

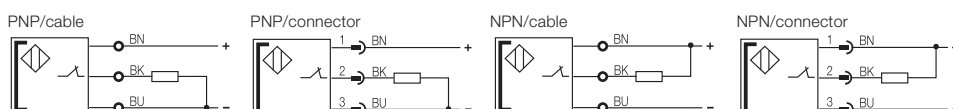


Wiring diagrams

NO



NC



Please order accessories separately see page 5.74

Advantages

Sensor disappears in the slot!



Switchpoint can be adjusted in seconds!
Turn screw one revolution, adjust position, tighten.



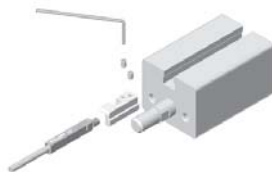
Switchpoint cannot be lost. Even if you replace the sensor, the adjusted switchpoint is determined by the mounting bracket, not the sensor.



BMF 303-HW-28/30



BMF 303-HW-33



For hose clamp matrix see page 3.0.10.

Ordering code	Advantages	Cylinder type	Mounting brackets
BMF 303-HW-28		C-slot e.g. SMC PX1538 min 2.95 4 2.3 2.8 M2x3 Ø3.9 6.5 2.5 1.5	
BMF 303-HW-30		C-slot e.g. Festo slot-10 PX1553 min 2.95 3.8 2.17 2.9 M2x3 3.65 6.5 2.5 1.5	
BMF 303-HW-31		C-slot e.g. Festo PX2442 min 2.95 3.8 2.17 2.9 M2 4.25 3.65 6.5 2.5 1.5 6 4 2.65	
BMF 303-HW-33		T-slot e.g. Festo slot-8, Bosch, SMC PX1560 5...5.4 3.1...4.3 ≤8 6.3 2.9 M2 4.9 6.2 M2x3 M2x3 15	
BMF 303-HW-40		T-slot e.g. Festo slot-8, Bosch, SMC PX1619 5...5.4 3.1...4.3 ≤8 6.3 4.9 4.8 6.2 M2x3 M2x3 6.5	
BMF 303-HW-44		Trapezoidal slot 60°/90° PX1657 8.9 6.7 M3x6 M3x4 4.9 1.4 0.3 11.9 60° 8.9 45° e.g. Festo, Bosch, Numatics, Hoerbiger-Origa, Norgren-Martonair	
BMF 303-HW-51		T-slot A T-slot B PX1578a 3.2 3 5.6 4.2 1.5 6.2 Location for T-slot A M2x2.5 M2x5 5 8 2.7 5.4 Location for T-slot B 1.2 5.9	
BMF 303-HW-59		without slot round cylinder Ø 8...80 mm with hose clamp PX1832a 7.2 8 8 4 5.5 11.5	
BMF 303-HW-80		e.g. Bosch PX2409 14.5 8.3 9.7 8	