

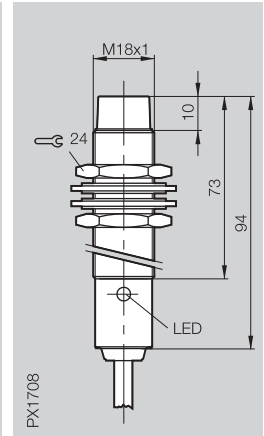
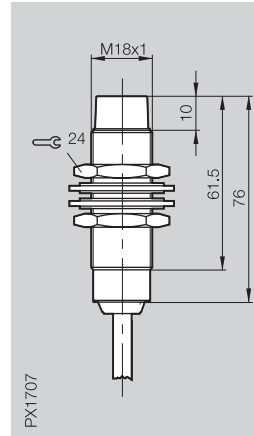
Remote – detect moving components

Not only digital switch points can be detected by a Remote System. Now analog signals can also be processed.

The necessary power for the BAW inductive distance sensor series is inductively coupled for the BAW sensor with 0...10 V DC signal output and this analog signal transmitted back over the same air gap.

Now you can use BAW sensors with moving components, for example to monitor the clamping distance during machining. The Transmitter and Output sensor located in the axis send power and information regardless of the turning speed.

Housing size	M18x1	M18x1
Type	Transmitter ←.....→	Output sensor
Transmission distance	2.5 mm	
Installation type	non-flush	non-flush



Transmitter	RNT 1803-VS10-PU-05	Output sensor	RNE 1803A-PU-05
Assured transmission distance	0...2.5 mm		
Supply voltage U_B incl. ripple			24 V DC $\pm 5\%$
Output signal			0...10 V DC
No-load supply current I_0 max.			≤ 150 mA
Short circuit protected			yes
Tightening torque	40 Nm		40 Nm
Radial offset	± 2 mm		
Operating current (for sensor)	≤ 10 mA		
Output voltage (for sensor)	18 ± 1.5 V DC		
Rated insulation voltage U_i	75 V DC		
Signal input	0...10 V DC		
Load resistance R_L	≥ 2 k Ω		
max. non-linearity	$\leq \pm 0.8\%$ of U_a max.		
Resolution	$\leq \pm 0.05$ V DC		$\leq 0.1\%$
Temperature drift	$\leq \pm 0.04\%$ /°C		
Response time			≤ 0.2 s
Ambient temperature range T_a	0...+60 °C		0...+60 °C
Function indicator			yes
Degree of protection per IEC 60529	IP 67		IP 67
Housing material	Nickel plated brass		Nickel plated brass
Material of sensing face	ABS/PBT		ABS/PBT
Connection type	5 m PUR cable		5 m PUR cable
No. of wires \times cross-section	3 \times 0.34 mm ²		3 \times 0.34 mm ²

For your electrical planning, please ask for the user's guide!

Examples of compatible inductive distance sensors

Ordering code	Housing size	Output signal	Linear range s_i
BAW M08EI-UAD15B-	M8x1	0...10 V	0.5 ... 1.5 mm
BAW M12MG2-UAC20B-	M12x1	0...10 V	0.5 ... 2.0 mm
BAW M12MF2-UAC40F-	M12x1	0...10 V	1.0 ... 4.0 mm
BAW M18MI-UAC50B-S04G	M18x1	0...10 V	1.0 ... 5.0 mm
BAW M18ME-UAC50B-	M18x1	0...10 V	1.0 ... 5.0 mm
BAW M18MG-UAC80F-S04G	M18x1	0...10 V	2.0 ... 8.0 mm
BAW M30ME-UAC10B-S04G	M30x1.5	0...10 V	2.0 ... 10.0 mm

See Linear Position Sensing brochure

