

MICROPULSE® Generation 7

How to order

B T L 7 - **- M** **-** **-**

1 and 2
3
4
5

1. Choose version: **MICROPULSE®** or **MICROPULSE+**

Refer to the table comparing the features of the Micropulse and Micropulse+.

Feature	Micropulse	Micropulse+
Diagnostic/setup LEDs	■	■
Two position outputs (rising/falling) with one magnet	■	■
Second output configurable for independent position of second magnet, velocity, speed, or differential distance		■
Pushbutton setup:		
Teach zero/span	■	■
Adjust signal online/in-process	■	■
Reset to factory defaults		■
Reset to last good teach	■	
Invert outputs (rising/falling)		■
Legacy Balluff push-button procedure	■	
Easy-Teach™ push-button procedure		■
Setup via discrete lines through cable/connector	■	
USB-configurable with software		■

2. Choose output signal

Use the table below to choose the correct output signal.

Note the ordering code designation in bold.

Output type	Ordering Code	
	Micropulse	Micropulse+
0...10V and 10...0V	BTL7 - A510 - M _ _ _ _ - - - -	BTL7 - A501 - M _ _ _ _ - - - -
-10...+10V and +10...-10V	BTL7 - G510 - M _ _ _ _ - - - -	BTL7 - A501 - M _ _ _ _ - - - - (user configurable)
4...20 mA	BTL7 - E500 - M _ _ _ _ - - - -	BTL7 - E501 - M _ _ _ _ - - - -
20...4 mA	BTL7 - E570 - M _ _ _ _ - - - -	
0...20 mA	BTL7 - C500 - M _ _ _ _ - - - -	
20...0 mA	BTL7 - C570 - M _ _ _ _ - - - -	BTL7 - E501 - M _ _ _ _ - - - - (user configurable)

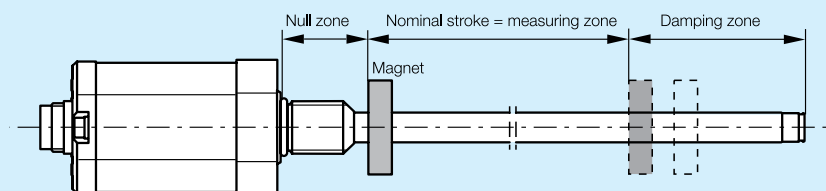
3. Choose measuring range

The nominal stroke of the Micropulse transducer is expressed in millimeters, from 0025 mm up to 7620 mm.

Example:

BTL7 - _ _ _ _ - M**1524** - _ _ _ _

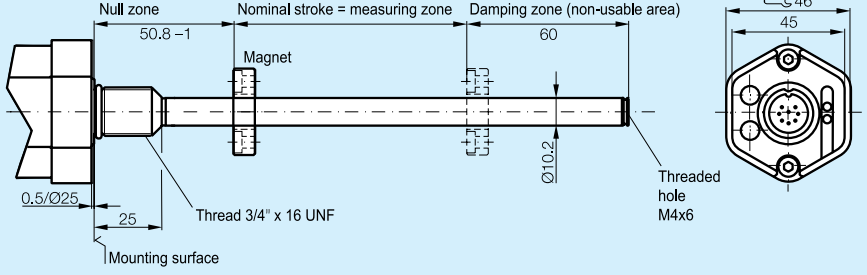
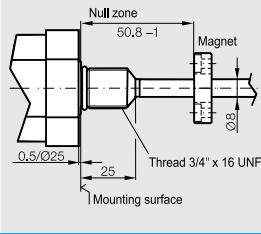
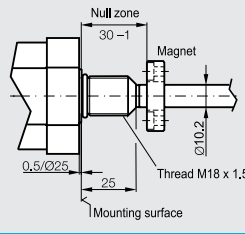
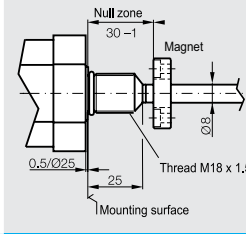
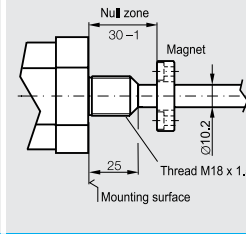
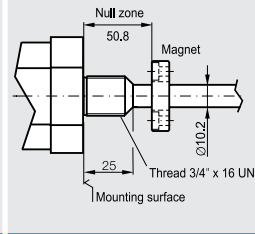
The overall length of the rod includes the nominal stroke + the NULL zone + the DAMPING zone.



Note: To convert inches to millimeters, multiply by 25.4. Example: 60" x 25.4 = 1524 mm.

4. Choose mounting flange/thread type and rod diameter

Use the table below to choose the mounting flange/mounting thread combination. Note the ordering code designation in bold.

Flange configuration/Rod diameter: 3/4"-16 UNF threads, raised-face mounting flange, Ø10.2 mm rod Ordering Code: BTL7 - - - - - M - - - - - Z - - - - - (Standard configuration)				
Flange configuration/ Rod diameter: 3/4"-16 UNF threads, raised-face mounting flange, Ø8 mm rod (max stroke length = 1016 mm) Ordering Code: BTL7 - - - - - M - - - - - Z8 - - - - - 	Flange configuration/ Rod diameter: M18 x 1.5 threads, raised-face mounting flange, Ø10.2 mm rod Ordering Code: BTL7 - - - - - M - - - - - B - - - - - 	Flange configuration/ Rod diameter: M18 x 1.5 threads, raised-face mounting flange, Ø8 mm rod (max stroke length = 1016 mm) Ordering Code: BTL7 - - - - - M - - - - - B8 - - - - - 	Flange configuration/ Rod diameter: M18 x 1.5 threads, flat-face mounting flange, Ø10.2 mm rod Ordering Code: BTL7 - - - - - M - - - - - A - - - - - 	Flange configuration/ Rod diameter: 3/4"-16 UNF threads, flat-face mounting flange, Ø10.2 mm rod Ordering Code: BTL7 - - - - - M - - - - - Y - - - - - 

5. Choose connector type or integral cable

S115 = 8 pin M12 micro connector

S32 = 8 pin M16 DIN connector

KAxx = Integral PUR cable (specify length **xx** in meters)

Full ordering codes

MICROPULSE®

Ordering example: BTL7 - 5 0 - M - - - - - Output signal A 0...10V and 10...0V G -10...+10V and +10...-10V E 4...20 mA C 0...20 mA	Output signal 1 for A and G rising and falling 0 for C and E rising 7 for C and E falling	Mounting threads Z = Standard 3/4"-16 UNF Nominal stroke in millimeters 0025 mm to 7620 mm in 1 mm increments	Connection type S115 8-pin M12 connector S32 8-pin M16 connector KA02 PUR cable 2 m KA05 PUR cable 5 m KA10 PUR cable 10 m KA15 PUR cable 15 m
---	---	--	---

MICROPULSE+

Ordering example: BTL7 - 501 - M - - - - - Output signal A Voltage (user configurable) E Current (user configurable)	Output signal 1 for A and G rising and falling 0 for C and E rising 7 for C and E falling	Mounting threads Z = Standard 3/4"-16 UNF Nominal stroke in millimeters 0025 mm to 7620 mm in 1 mm increments	Connection type S115 8-pin M12 connector S32 8-pin M16 connector KA02 PUR cable 2 m KA05 PUR cable 5 m KA10 PUR cable 10 m KA15 PUR cable 15 m
---	---	--	---