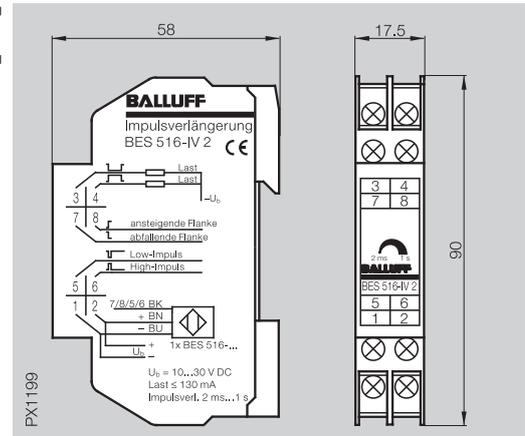
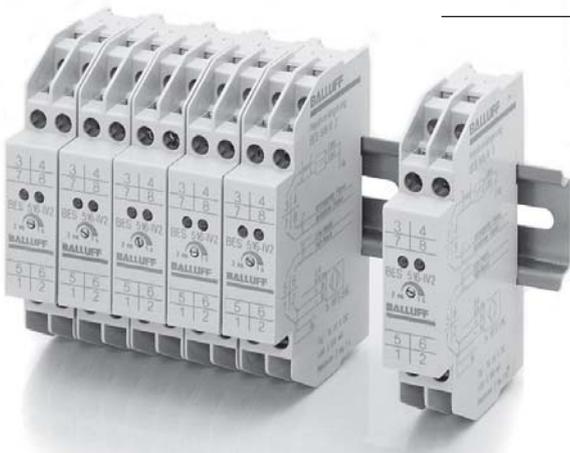


Description	Pulse extender



**Detecting fast motion**

Sound like your problem?

Rapid motions on machines mean that the proximity switches are only actuated for a short time.

The length of the sensor output signal – whether inductive, capacitive or photoelectric – is then not on long enough to ensure reliable processing. The controller does not recognize the output signal due to the former's cycle time.

The result:

Important information in the controller sequence is lost. This can pose a risk to your machine!

The solution:

Balluff Pulse Extender BES 516-IV 2. Only the rising or falling edge of the output signal from a sensor is enough to drive this device. The extender creates a proper pulse that can be detected by your controller. The length is adjustable from 2 ms to 1 sec. Small and space-saving, the device can be installed on a rail in accordance with EN 50022-35.

Ordering code	BES 516-IV 2
Output (LED indicators)	Sourcing (PNP), complementary
Adjustable pulse extender	2 ms... 1 s
Set value	200 ms (+50 ms)
Input 7/8	referenced to the respective edge of the input signal
Input 5/6	referenced to the pulse end of the input signal
Repeatability	< 10 %
Input	1 PNP- or 1 NPN-NO or NC
min. input pulse length	1.5 ms
Supply voltage U <sub>B</sub>	10...30 V DC (Input voltage = output voltage)
Ripple	≤ 15 %
No-load current	approx. 20 mA
Output current	≤ 130 mA
Permissible load capacitance	≤ 0.5 μF/24 V
Ambient temperature range T <sub>a</sub>	0...60 °C
Housing attachment	DIN rail EN 50022-35
max. wire cross-section	2x2.5 mm <sup>2</sup>
Degree of protection per IEC 60529	Housing IP 40/terminals IP 20
Output 3	Low-pulse, extended
4	High-pulse, extended
Input 7	falling edge
8	rising edge
5	Low-pulse
6	High-pulse
1	-U <sub>B</sub>
2	+U <sub>B</sub>
falling edge	Output signal is triggered by falling edge
rising edge	Output signal is triggered by rising edge
Low-pulse	PNP-NC/NPN-NO short damped PNP-NO/NPN-NC short undamped
High-pulse	PNP-NO/NPN-NC short damped PNP-NC/NPN-NO short undamped

**Remarks**

Protected against overload (by PTC), against reversal of plus and minus. All sensors (DC, 3-/4-wire) can be connected, either NO or NC. Either both or one of the outputs may be connected.