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Pulse divider

X10-415-000-008

The pulse divider belongs to the group of electronic adapters. Retrofitting vehicles with integrated sensors with EC control instrument often requires a pulse shaping unit and/or a pulse divider.

This pulse divider with double pulse output can process and shape the most different input signals and can divide also high sensor frequencies up to 10:1 maximum.

Features

- The pulse divider processes square-wave signals and sinusoidal signals, signals from reed contacts and signal sources with open-collector outputs.
- The pulse divider has a double pulse output (square-wave signal)
- Pulse division 1:1, 2:1, 4:1, 8:1, 10:1 by means of jumpers
- Two lead seals on the case
- Armored signal cable with connector

Application

- Mainly in vehicles which, by legal regulations have to be provided with an EC-tachograph, e.g.:
 - Vehicles with integrated sensors
 - Trucks
 - Railcars

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Technical information

| | |
|---------------------------|--|
| Supply voltage | +8 volts from tachograph |
| Power consumption | typ. 10 mA |
| Input signal (low range) | Sinusoidal signal $U_{pp} > 300$ mV |
| Input signal (high range) | Sinusoidal signal $U_{pp} > 2$ volts |
| Output signal | Square-wave signal $U_H > 6$ volts; $U_L < 2$ volts |
| Output signal | Double pulse (inverted) |
| | U_L 0,85 volts; U_H 5,2 volts |
| Pulse division | 1:1, 2:1, 4:1, 8:1, 10:1 (set to 2:1 ex factory) |
| Sensor frequency | 6 kHz maximum |
| Type of protection | IP 30 |
| Operating temperature | -25 °C ... +70 °C |
| Storage temperature | -30 °C ... +80 °C |
| Lead seals | Lead seal cap (plastic) |
| | Signal cable to TCO armored |
| Weight | approx. 300 g incl. armored cable |
| Dimensions (in mm) | Case (L x W x H) 100 x 50 x 30; Armored cable approx. 1 m, 4-poles Cable to sensor system approx. 1 m, 3-poles |

