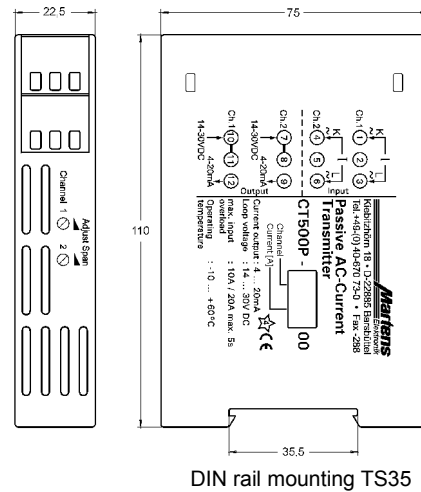


**Product Information**

**AC Current Transmitter  
 CT500P**



**Dimensions**



- 1- and 2-channel device
- Measuring ranges 0..1 A / 0..5 A AC
- Arithmetic average value measurement RMS calibrated
- Frequency range 45..400 Hz
- Loop voltage 14..30 V DC

**Characteristics**

The transmitter converts AC current from 0..1 A or 0.5 A to the proportional standard signal 4..20 mA.  
 The CT500P operates like an 2-wire transmitter, which is supplied from the measuring device (e.g. SPS input circuit board).

**Technical data**

**Power supply**  
 Loop voltage : 14..30 V DC  
 Operating temperature : -10..+60 °C  
 CE-conformity : EN55022, EN60555, IEC61000-4-4/5

**Input**  
 Current : 1- or 2-channels  
 Current : 0..1 A or 0..5 A AC, overload max. 10 A  
 R<sub>i</sub> : < 20 mΩ  
 Frequency : 45..400 Hz fundamental wave,  
 162/3 Hz on request

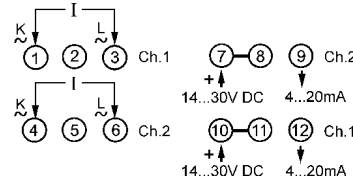
End value : adjustable ± 5 %

**Output**  
 Current : 4..20 mA, burden R<sub>max.</sub> = (U<sub>B</sub> - 14 V) ÷ 20 mA  
 Rise time (T<sub>90</sub>) : ≤ 1 s  
 Accuracy : ≤ 0.2 %

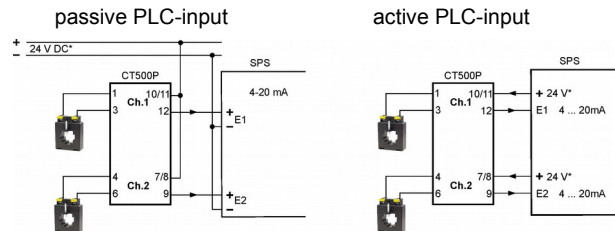
**Case** : Polycarbonate, UL94V-0  
 TS 35 acc. to DIN EN 60715:2001-09

Weight : approx. 200 g  
 Connection : screw terminals, max. 2.5 mm<sup>2</sup>  
 Protection class : case IP30,  
 terminals IP20 acc. to BGV A3

**Connection diagrams**



**Circuit examples**



**Ordering code**

CT500P -  1. -  2. -  3.

<b>1. Number of channels</b>	
1	
2	
<b>2. Input direct connection / via transformer</b>	
1	1 A
5	5 A
<b>3. Options</b>	
00	without option
<b>Accessories</b>	
KA-500	terminal cover for measuring voltages > 400V AC