



**INDUSTRIKOMPONENTER A/S**  
En anerkendt partner i Mobil Energi

**HASTIGHEDSVAGTE  
SWE**



For mere specifikke oplysninger om disse produkter, og  
hvordan de kan dække dine behov, ring venligst

**INDUSTRIKOMPONENTER A/S**

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# HASTIGHEDSVAGTE SWE

## GENERAL

The electronic rotational speed monitor SWE-compact comprises constructively the opto-electronic pulse transducer, the speed analysing relay and the power supply in one unit. By this compact form of construction, the connecting wires between the pulse transducer and the analysing relay which are susceptible to interferences considering the usual electronic speed monitoring systems, are eliminated. Only the supply voltage as well as the cables for the voltage-free output relay contacts need to be connected to the SWE-compact.

Electronic rotational monitoring of underspeed, control of slip, stand-still monitoring.

## INSTALLATION AND OPERATION

The unit has a separate chamber containing the connection terminals, the knob of the setpoint potentiometer, the LED as well as the knob of the start-up delay potentiometer.

If the drive speed exceeds the pre-set operating speed, the relay is energized and the LED is lit. If the drive speed falls below the pre-set operating speed, the relay drops. The LED is extinguished.

An opto-coupler can be provided instead of the output relays.

The SWE-compact has the same fixing dimensions as the approved devices type SWS, DKS and EOGS. All the couplings and accessoires of the devices can be used.

For conveyors, speed monitoring can be effected directly from the conveyor by means of the SWE-compact with coupled conveyor monitor stand and belt drive „B“.

Decisive features of the SWE-compact are:

Interference proof transmission of signals even over extremely long distances, simple and cost-saving setting up, monitoring of lowest rotating speeds (stand-still monitoring) and, above all, its compact construction especially planned for the operation under very rough service conditions.

## TEKNISKE DATA

Standards	EN 60204, EN 50178-94, EN 50081-1, EN 50082-2
Supply Voltage	230 V $\pm$ 10%, 50 ... 60 Hz (other voltages on request)
Reset Differential	$\leq$ 20% from cut-out speed to cut-in speed
Trip point accuracy	< 2 %
Start-up delay	0,5 ... 15 sec., adjustable
Pick-up time	Of the output relay is 200 ms after the cut-in of the actuating supply voltage
Ambient Temperature	-20 °C ... + 70 °C
Mounting Position	Any
Protection	IP 65 according to N 60529
Cable entry	2 x M25 x 1,5
Housing material	Aluminium alloy GK-AlSi 12
Output contact	Single pole changeover goldplated contacts
Contact ratings I <sub>e</sub> /U <sub>e</sub>	2 A/AC 230 V

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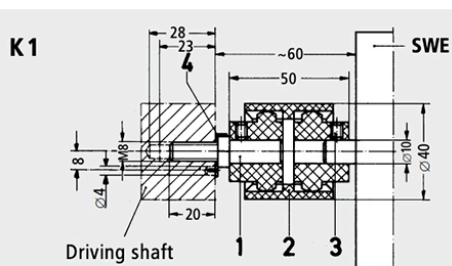
### OPERATION PRINCIPLE

Type	Number of Imp./Rev	Range of set point adjustment rpm	Cut-out delay sec.
SWE 001	1	40 - 600	2,5 - 1,1
SWE 005	5	8 - 120	2,5 - 1,1
SWE 010	10	4 - 60	2,5 - 1,1
SWE 025	25	1,6 - 24	2,5 - 1,1

When used in conjunction with the conveyor monitor type B, the operating speed can be converted into rpm by the following formula:

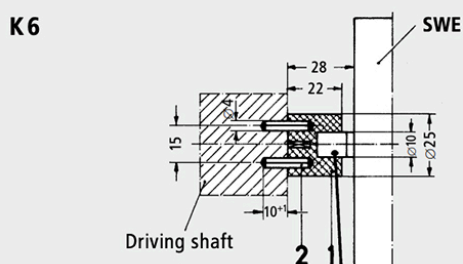
$$\frac{\text{belt speed in m/s} \times 60}{0,314} = \text{rev./min}$$

### COUPLINGS



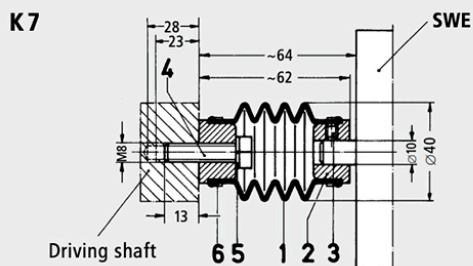
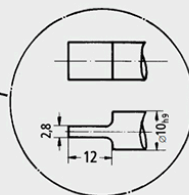
Ordering code: 94.040.535.001  
Flexible plastic coupling,  
temperature range about -25 °C to +100 °C,  
weatherproof, maximum misalignment 3 mm

- 1) Connection shaft
- 2) Coupling
- 3) M 5 x 6 Grub screw
- 4) 8,4 Locking washer



Ordering code: 94.040.535.002  
Two-pin rubber coupling, oil-resistant,  
maximum misalignment 2 mm

- 1) Coupling
- 2) Roll pin 4 x 20



Ordering code: 94.040.535.004  
Flexible bellows coupling suitable for poor  
misalignment, maximum misalignment 10 mm

- 1) Bellows
- 2) Fixing collar
- 3) M 5 x 6 Grub screw
- 4) Hexagon headed M 8 x 30 screw
- 5) Spring retaining ring B 8
- 6) Retaining strap

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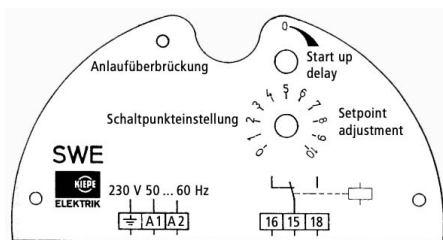
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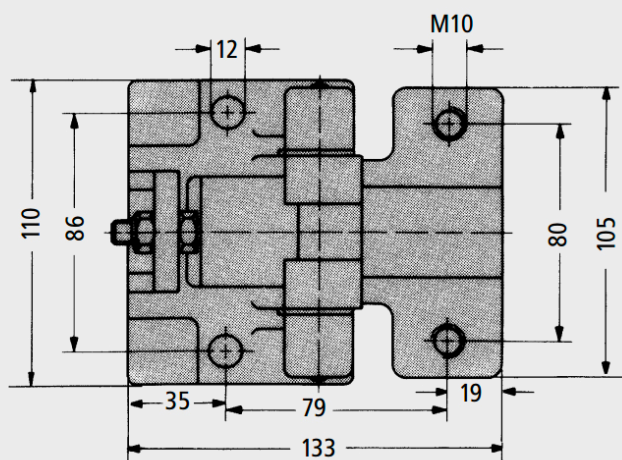
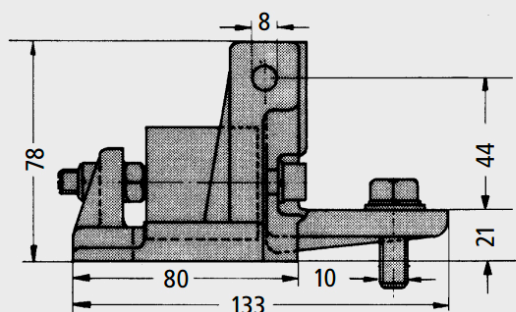
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### CONNECTION DIAGRAM



### DIMENSIONER

Hinge Pedestal Type GB  
to be fitted on Belt Drive B



Type G



Type K

The use of the hinge pedestal is recommended to ensure constant pressure between belt and roller in order to avoid failures caused by slip.

The extent of supply of the belt drive comprises rubber or plastic rollers.

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