INDUSTRIKOMPONENTER A/S
En anerkendt partner i Mobil Energi

HASTIGHEDSVAGTE EOG og DK

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

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APPLICATION

Operation of Pulse Transducers, type DK and EOG, is contactless. 1 or 5 pulses/revolution can be generated from the DK device. The Pulse Transducers of type EOG generate 1, 5, 10 or 25 pulses/revolution.

The transducer's shaft has to be coupled to the shaft of the monitored drive. The use of the DK/EOG Pulse Transducers is recommended in all cases where it is impossible either to install pulse discs or to utilized other rotating machine parts for pulse generating purposes. The Pulse Transducer DK contains an inductive slot initiator, which is energized by a pulse disc with 1 or 5 targets.

The correct operation of the Kiepe Pulse Transducer EOG is only guaranteed in conjunction with Kiepe Electronic Speed Monitors EDO and JMNC. The opto-electronic transducer produces extremely step-front pulses.

The high accuracy of the pulse disc guarantees exact spacing, even when 25 pulses/revolution are generated.

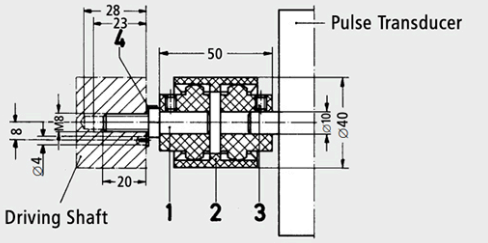
Depending on the selection made, the transducers can produce from 1 to 25 pulses per revolution of the shaft. The use of this opto-electronic transducer is recommended, if high accuracy at the switching point of the speed control system is required.

The opto-electronic Transducer EOG 025 is especially designed to monitor drives at standstill. The transducer's voltage feed is supplied by the Kiepe Speed Monitor. Therefore, the Transducers EOG require a 3-core connecting cable (e.g. 3 x 2,5 mm2).

Combined with the Kiepe Belt Drive type B, a direct control of the conveyor belt run is obtained. A reliable slip control prevents the conveyor belt from being damaged.

COUPLINGS

K1

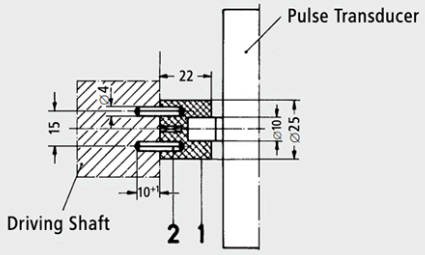


Order number: 94.040 535.001

Flexible plastic coupling,
temperature range about - 25 °C bis + 100 °C,
weatherproof, maximum misalignment 3 mm

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

K6

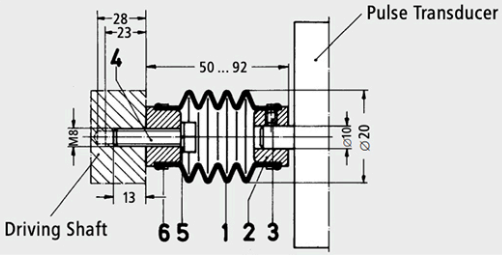


Order number: 96.040 535.002

Two-pin rubber coupling,
oil-resistant, maximum misalignment 2 mm

1) Coupling
2) Roll pin 4 x 20

K7



Order number: 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 M 8 x 30 screw
5) Spring retaining ring B 8
6) Retaining strap

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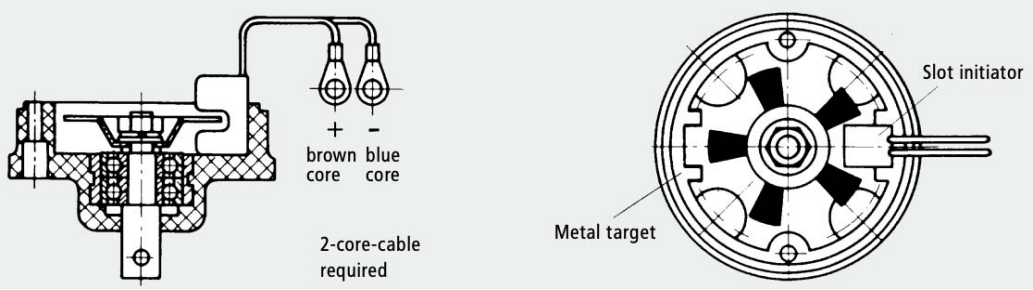
HASTIGHEDSVAGTE EOG og DK

TECHNICAL DATA

PULSE TRANSDUCER DK	
Device complies with	NAMUR - EN 50227, EN 50081-1, EN 50082-2, EN 50178-94
Ambient Temperature	-25 °C ... + 70 °C
Connection	Via a terminal block (+ brown, - blue)
Operation position	Any
Cable Entry	2 plastic stoppers maximum 3 X 2,5 mm^2 for DK, 1 x M25 x 1,5 for DK/S and DK/GG
Protection	DK = IP 54/DKS* or DK/GG* = IP 65 according to EN 60529
Maximum operational speed	2500 min^{-1} (DK 155), 5000 min^{-1} (DK 111)
* Housing material: S = Aluminium, GG = Cast iron	

OPERATION PRINCIPLE



TECHNICAL DATA

PULSE TRANSDUCER EOG	
Device complies with	EN 50081-1, EN 50082-2, EN 50178-94
Supply Voltage	24 V = + 10 % - 15 % or 15 V = + 10 % - 15 %
Ambient Temperature	-20 °C ... + 70 °C
Maximum impulse amplitude	40 V
Maximum impulse current	6 mA
Maximum impulse frequency	18.000 min^{-1}, = 300 cyc.
Pulse accuracy	± 1 % at constant RPM
Cable Entry	2 plastic stoppers maximum 3 x 2,5 mm^2 for EOG, 1 x M25 x 1,5 for EOG/S and EOG/GG
Protection	EOG = IP 54/EOGS* or EOG/GG* = IP 65 according to EN 60529
Maximum operational speed	5000 RPM
* Housing material: S = Aluminium, GG = Cast iron	

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SELECTION TABLE

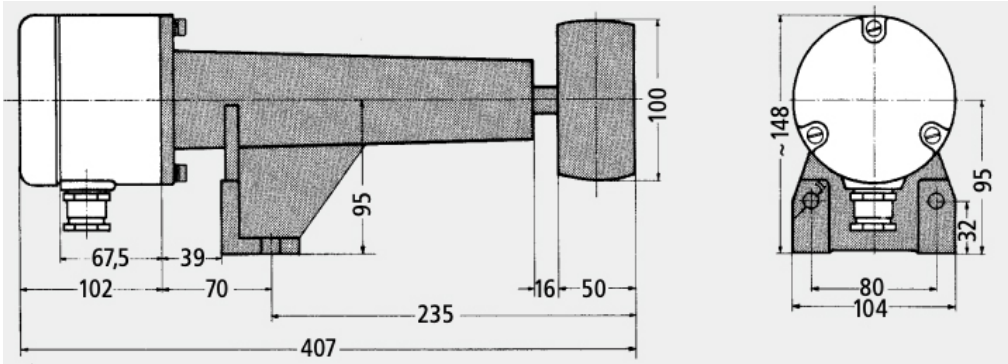
Type	No. of energized pulses per revolution	Type	No. of energized pulses per revolution
DK 111	1	EOG 001	1
DK 155	5	EOG 005	5
		EOG 010	10
		EOG 025	25

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

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

DIMENSIONER OG BESTILLINGSKODER

Pulse Transducers Type DK/EOG, Housing S or GG with Belt Drive



	Typenummer		Housing (IP65)[1]	Roller[2]
DKB	I_I_I_I	-2	/S	/K
DKB	I_I_I_I	-2	/S	/G
DKB	I_I_I_I	-2	/GG	/K
DKB	I_I_I_I	-2	/GG	/G
EOGB	I_I_I_I	-2	/S	/K
EOGB	I_I_I_I	-2	/S	/G
EOGB	I_I_I_I	-2	/GG	/K
EOGB	I_I_I_I	-2	/GG	/G
1 -S: Aluminium, GG: Cast Iron 2 G: Rubber, K: Plastic				

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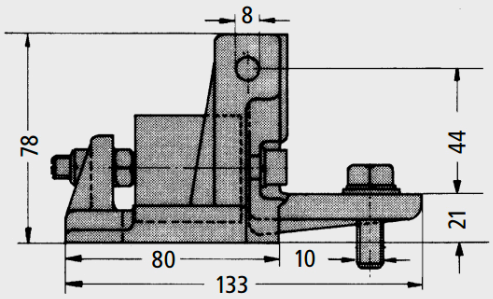
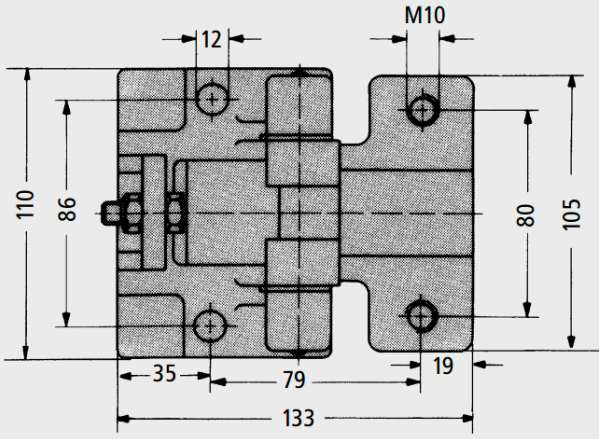
DIMENSIONS

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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