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APPLICATION

The DG type proximity switches are contactless pulse transducers. They are especially designed to meet operating conditions, where high switching accuracy, durability, corrosion and wear resistance are required. The pulse transducers generate pulses, the frequencies of which is proportional to the rational speed. The evaluation of the generated pulses is assessed and monitored by either of the speed monitors EDO or JMNC.

OPERATING PRINCIPLE

2-Wire Pulse Transducer according to NAMUR-EN 50277

Essentially, these pulse transducers consists of an electronic oscillator, the high-frequency stray field of which makes up the response zone. When a metallic object is immersed into the effective area of the stray zone, the resonant circuit is shortcircuited and its internal resistance becomes high-impedance. The oscillations stop and the current consumption of the pulse generator decreases. This current change is analysed by the speed monitors.

3-Wire Pulse Transducer, PNP-switching

These pulse transducers differ from the NAMUR types by an additional downstream flip-flop, which effects a change of the output potential from GND to +Ub when the active zone is damped.

These pulse transducers can also be directly connected to a PLC.

INSTALLATION

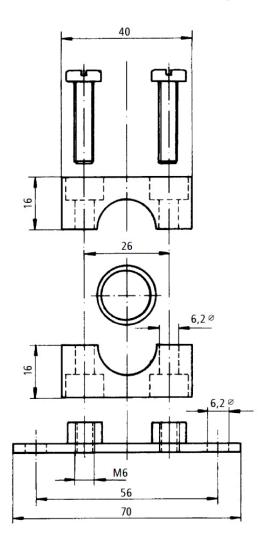
The pulse transducers are to be installed in such a way that within the sensing zone one or several metal parts (Fe metals, if possible) can rotate passing the transducer's head within the response distance. One pulse is generated per metal part. Pulse multiplication via several metal parts is recommended for low rational speeds. the metal parts should at least have the dimensions of the transducer's head and the distance between any two parts should not be below twice the diameter of the transducer's head.

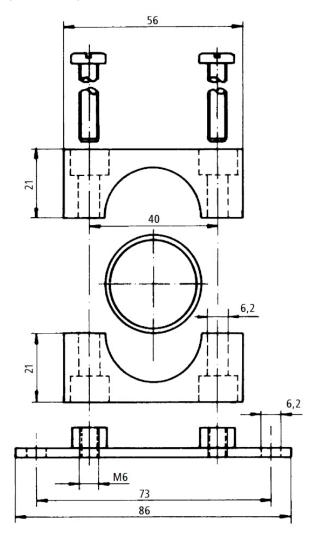
The pulse transducer is fastened with two fixing nuts or by means of the enclosed plastic mounting clips c /w welding plate. Since the pulse transducers are suitable for a flush mounting they can be screwed directly in a thread. In order not to influence the sensitivity of the pulse transducer, the distance between the pulse transducer's head and any metal machine parts has to be at least 24 mm for M18 and 30 mm for M30 pulse transducers.





DRAWING INSTALLATION





Width of the welding plates: 30 mm Thickness of the welding plates: 7 mm

TEKNISKE DATA

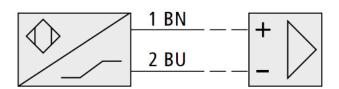
2-Wire Pulse Transducer according to NAMUR-EN 50277				
Rated operational voltage	U _。	DC 8,2 V		
Internal resistance	$ \begin{array}{c c} R_i & 1000 \\ I_{activated} & \leq 1,2 \text{ mA} \\ I_{non-activated} & \geq 2,1 \text{ mA} \end{array} $			
3-Wire Pulse Transducer, PNP-switching				
Rated operational voltage	U _B	DC 10 - 30 V, completely polarised		
Rated operational current	l _e	200 mA		

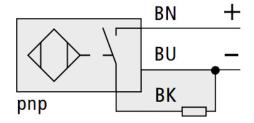
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CONNECTION DIAGRAM





GENERAL DATA

Standards	EN 60947-5-2, EN 50277 (only NAMUR types), EN 50081-2, EN 50082-2, VDE 0110 - pollution degree 3	
Protection	IP 67 according to EN 60529	
Housing	Chrome-plated brass PA 12-GF 30 for temperature resistant types	
Ambient Temperature	Standard: -25 °C til +70 °C TN-Type: -40 °C til +70 °C TH-Type: -25 °C til +100 °C	
Connecting Cable	2 x 0,5 mm², length 2 m for NAMUR-types 3 x 0,34 mm², length 2 m for PNP-types	

SELECTION TABLE

Туре	Rated operating distance s _n (mm)	Output	Diametre (mm)	
DG 5	5	NAMUR	18	
DG 5 TN	5	NAMUR	18	
DG 5 TH	5	NAMUR	18	
DGP 5	5	PNP	18	
DG 10	10	NAMUR	30	
DG 10TN	10	NAMUR	30	
DG 10 TH	10	NAMUR	30	
DGP 10	10	PNP	30	
The TN- and TH-types are also resistant to oil, petrol and alkaline solutions.				

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TYPER OG DIMENSIONER

DG 5	Threaded barrel M18 x 1 Housing diameter 18 mm Fixing torque 25 Nm Spanner size (AF) 24 Thickness of nut 4 mm	24/4
DG 10	Threaded barrel M30 x 1,5 Housing diameter 30 mm Fixing torque 90 Nm Spanner size (AF) 36 Thickness of nut 5 mm	36/5
DG 5 TH DG 5 TN	Threaded barrel M18 x 1 Housing diameter 18 mm Fixing torque 2 Nm Spanner size (AF) 24 Thickness of nut 8 mm	24/8
DG 10 TH DG 10 TN	Threaded barrel M30 x 1,5 Housing diameter 30 mm Fixing torque 5 Nm Spanner size (AF) 36 Thickness of nut 10 mm	36/10 40
DGP 5	Threaded barrel M18 x 1 Housing diameter 18 mm Fixing torque 25 Nm Spanner size (AF) 24 Thickness of nut 4 mm	24/4
DGP 10	Threaded barrel M30 x 1,5 Housing diameter 30 mm Fixing torque 90 Nm Spanner size (AF) 36 Thickness of nut 5 mm	36/5

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