

Pulse Sensors

Type Magnetic Field

Characteristics



Pulse sensors of the type **magnetic field** are suitable for the generation of rotation speed-proportional pulse numbers and are equipped with either a Hall- or a magneto-resistance sensor element.

For the pulse generation either a **gear wheel** or a **rack rail made of steel**, e.g. St37 are used, for whose width B applies:

$$4 \text{ mm} < B < \varnothing \text{ sensor.}$$

With the **mounting** the right **mounting position** has to be considered. The axis of the pulse sensor has to be in line with the center of the gear wheel / of the rack rail. A lateral position marking allows an alignment parallel to the tooth flank and/or vertical to the actuating direction.

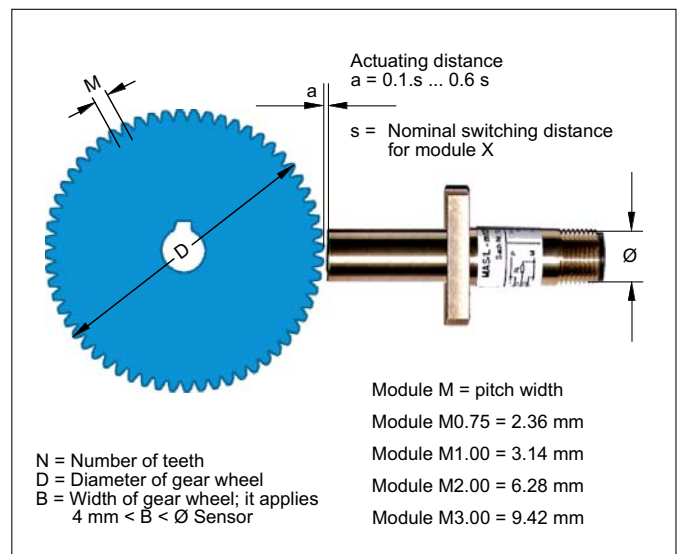
The **lateral displacement** of the gear wheel / of the rack rail may not exceed 0.2 mm at the smallest width. The run-out should be < 0.2 mm.

The **fixing** has to avoid reliably a vibration of the pulse sensor against the gear wheel / the rack rail.

The pulse sensors produce a **rectangular output signal**. There are two different types:

- **dynamic pulse sensors** for an actuating frequency range of some Hertz up to approx. 25 kHz
- **static pulse sensors** for an actuating frequency range from 0 to approx. 20 kHz.

Please take precise values from the Technal Data.



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Type	Ref. No.	Switching distance
		in mm Mounting *)
HALL round 10 Ø x L		
HAD-10er59b2-6TK1 **)	13.26-29-020	2.0 b
HALL round 10.8 Ø x L		
HAD-11ms45b2.5-5S1	13.26-01-000	2.5 b
HAD-11ms60b1-5Sd1	13.26-66-000	1.0 b
HAD-11ms60b2.5-50NK1	13.26-03-000	2.5 b
HAD-11ms60b2.5-50Y1	13.26-07-000	2.5 b
HAD-11ms60b2.5-50Y2	13.26-08-000	2.5 b
HAD-11ms60b2.5-50Y3	13.26-10-000	2.5 b
HAD-11ms60b2.5-50Y4	13.26-12-000	2.5 b
HAD-11ms60b2.5-50Y5	13.26-27-000	2.5 b
HAD-11ms60b2.5-50Y6	13.26-28-000	2.5 b
HAD-11ms60b2.5-50Z1	13.26-02-000	2.5 b
HAD-11ms60b2.5-5S1	13.26-13-000	2.5 b
HAD-11ms60b2.5-5S4	13.26-56-000	2.5 b
HAD-11ms60b2.5-5Y2	13.26-53-000	2.5 b
HAD-11ms60b2.5-5Y3	13.26-54-000	2.5 b
HAD-11ms60b2.5-5Y4	13.26-57-000	2.5 b
HALL round 12 Ø x L		
HAD-12aq50b1-5NK1	13.26-63-020	1.0 b
HAD-12er55b1-5PK1	13.26-70-020	1.0 b
HAD-12er55b2.4-5NK2	13.26-72-000	2.4 b
HAD-12er55b2.5-5NK1	13.26-38-020	2.5 b
HAD-12mg50b2.5-5ND1	13.26-06-020	2.5 b
HAD-12mg70b2.5-5S2	13.26-55-000	2.5 b
HAD-12mg70b2.5-5S3	13.26-74-000	2.5 b
HAD-12ms41b2.5-5NK1	13.26-51-000	2.5 b
HAD-12ms41b2.5-5Y1	13.26-52-000	2.5 b

Type	Ref. No.	Switching distance
		in mm Mounting *)
HALL round 14 Ø x L		
HAD-14eg50b1-5ND1	13.26-77-025	1.0 b
HAD-14er120b1-5TT3	13.26-79-030	1.0 b
HALL round 16 Ø x L		
HAD-16ss96b1-5Yd1	13.26-73-000	1.0 b
HALL round 18 Ø x L		
HAD-18eg82b1-5NT1	13.26-71-020	1.0 b
HAD-18mg82b1-5NT1	13.26-69-020	1.0 b
HAD-18mg93b1-5Sd1	13.26-68-000	1.0 b
HAD-18mg98b1-5Vd1	13.26-67-000	1.0 b
HAD-18sg80b2.5-5TK1	13.26-50-020	2.5 b
HAD-18ss100b1.6-5NT1	13.26-65-005	1.6 b
HAD-18ss85b1-5NT1	13.26-64-060	1.0 b
magneto-resistant round 12 Ø x L		
MAD-12aq50b0.4-5NK1	13.21-59-020	0.4 b

*) b = flush mounting, n = non-flush mounting, t = partly flush mounting

**) = supply on request