

Product Announcement

**BF.. / BT.. Double Brakes:
Functional Safety up to Performance Level e**

Modular Brake Concept



Double brake: the new component in the safe brake system

Using 2 motors arranged in parallel with individual brakes is a common solution for implementing a safe brake system in industrial environments or in entertainment technology applications. This solution is safe but neither space saving nor cost-efficient.

With the introduction of the modern BF../BT.. double brake, SEW-EURODRIVE now offers the option of implementing a safe brake system with 2 redundant partial brakes on a single drive. Both double brake types achieve Performance Level e (PL e) in industrial and entertainment technology applications, for example in theaters.

Advantages of the double brake: reduced installation space, less installation effort and consequently lower costs.

Integrated in a safe brake system, double brakes offer entirely new possibilities in the field of functional safety for persons and machinery.

Overview of features

BF.. double brake

- Designed for applications in industrial environments
- Optionally available as safe double brake designed for use in functional safety applications according to EN ISO 13849-1
- Supplements a safe brake system up to the highest Performance Level e

BT.. double brake

- Designed for entertainment technology applications
- Always designed as safe double brake for use in functional safety applications according to EN ISO 13849-1
- Supplements a safe brake system up to the highest Performance Level e
- Designed and certified according to DIN 56950-1 Entertainment technology
- Particularly quiet due to special damping properties

The double brakes will be available in sizes BF11/BT11, BF20/BT20, and BF30/BT30 in the nominal braking torques from 2x 14 Nm to 2x 300 Nm as of the middle of 2015.

Special features:

- Manual brake release
- Contactless monitoring of function and wear
- Special brake control



A new HT manual brake release option is available in addition to the HR manual brake release with automatic re-engaging function that allows to release both partial brakes of the double brake simultaneously. The new option offers the same basic function as the HR option but comes equipped with a special mechanism on the manual release lever. This mechanism allows for releasing one of the two partial brakes or both partial brakes at the same time.

Also new: the optional brake diagnostic unit /DUE (Diagnostic Unit Eddy Current).

The sensor system monitors the two partial brakes permanently for function and wear, and does this in a contactless manner. This system shows the switching state of the brake, monitors the permitted wear, and permanently measures the current working air gap.

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