



Date \_\_\_\_\_

# Application Data Sheet

(for Electrohydraulic Trailer Brakes)

**Confidential**  
You incur no obligation by submitting this data and the non-public information provided will be held in confidence by ZF.

**NOTE: For all questions, trailer refers to any type of towed vehicle. Please include any other design requirements, drawings, pictures, etc.**

Project Name \_\_\_\_\_

Expected Production Start Date \_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Fax \_\_\_\_\_ Phone \_\_\_\_\_ Country \_\_\_\_\_

Email \_\_\_\_\_

Are you currently working with a ZF Off-Highway Distributor?  Yes  No If yes, which one and who is the contact?

Estimated Annual Quantity \_\_\_\_\_

Is this a military application?  Yes  No If yes, what is the destination country? \_\_\_\_\_

Is this an underground coal mine application?  Yes  No

## SPECIFICATIONS

Is the application  Retrofit  Original Equipment

Primary use of trailer  Boat/Marine  RV  Flat Bed  Cargo  Horse/Livestock  Agriculture  
 Construction  Other \_\_\_\_\_

Type of hitch \_\_\_\_\_

Type of electrical connector \_\_\_\_\_

Regulations or industry standards influencing brake system design \_\_\_\_\_

Weight of trailer - empty \_\_\_\_\_

GVW of trailer - maximum load \_\_\_\_\_

Maximum towing speed \_\_\_\_\_

Required response time \_\_\_\_\_ milliseconds

How many axles are braked?  1  2  3  4

Trailer brake type  Drum & Shoe  Disc Brakes  Multiple Wet Disc Brakes

Trailer brake actuation type  Hydraulic Apply Spring Release  Spring Apply Hydraulic Release  Mechanical  
 Air/Hydraulic  Electric

Maximum brake pressure \_\_\_\_\_

Total brake displacement - new linings \_\_\_\_\_

Total brake displacement - end of lining life \_\_\_\_\_

Fluid Type:  DOT 3  DOT 4  DOT 5  DOT 5.1  Hydraulic Oil - type \_\_\_\_\_

Brake line diameter \_\_\_\_\_ Brake line length \_\_\_\_\_

Nominal towing vehicle system voltage  12 Vdc  24 Vdc  Other (specify) \_\_\_\_\_

How much electrical current is available to the trailer from the towing vehicle? \_\_\_\_\_ Amps

Would you object to a system that requires a battery on the trailer?  Yes  No

Preferable mounting location for hydraulic power unit

Trailer - specific location \_\_\_\_\_

Tow vehicle - specific location \_\_\_\_\_

Use existing hydraulic power source - details \_\_\_\_\_

Maximum package size or constraints of system enclosure \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_

Describe environmental resistance requirements \_\_\_\_\_

Preferable mounting location for electronic controls

- Trailer - specific location \_\_\_\_\_
- Tow vehicle - specific location \_\_\_\_\_
- Use existing controls - details \_\_\_\_\_

Maximum package size or constraints of system enclosure \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_

Describe environmental resistance requirements \_\_\_\_\_

Method for determining the amount of trailer brake force

- Automatic  Surge  SurgeLess
- Manual Adjustment  Proportional to deceleration  Proportional to tow vehicle brake pressure
- Proportional to brake pedal displacement

Additional notes, requirements, or general information:

Proposals will be made on the basis of the information provided. Subsequent customer engineering changes affecting the above could make our proposal invalid.

**NOTICE**

Component and system recommendations made by ZF Off-Highway Solutions Minnesota Inc. are based on information supplied by you. ZF does not independently confirm or test information supplied, or test the applicability of components or system recommendations. All recommendations are based on theoretical application of ZF Off-Highway Products based on the information you provide. Actual results may vary based on actual use conditions or inaccuracies in provided information. You must finally accept and approve recommended components and systems after you test the performance of the recommended system and components in actual applications for which the system was designed and in which it is operated. ZF Off-Highway reserves the right to reject any orders for components and systems not so accepted and approved. No component or system recommendation is intended to be or shall be construed as an express warranty by ZF Off-Highway Solutions Minnesota Inc. All ZF Off-Highway Products and services are sold and provided subject to the ZF Warranties set forth at [www.mico.com](http://www.mico.com) in effect on the date of sale or supply.



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