CAN bus Distances and CAN fiber extension gateways from EKS Engel

Justin Schneider - 2026-10-14 - easYgen-3000XT

Maximum CAN bus length The maximum length of the communication bus wiring is dependent on the configured baud rate. Observe the maximum bus length. (Source: CANopen; Holger Zeltwanger (Hrsg.); 2001 VDE VERLAG GMBH, Berlin und Offenbach; ISBN 3-8007-2448-0).

Recommendation is to think about CAN Fiber Optics conversion to increase CANbus distance

Download EKS Engel CAN Fiber Gateway application note here:

https://wss.woodward.com/manuals/PGC/easYgen-3000XT_series/Application_Notes/45056_AN_CAN-to-Fiber-Converter_A.pdf

EKS 3DSTP CAD Modell

https://wss.woodward.com/manuals/Support/CAD_data_3rdparty_accessories/WWD_8445-1048_DL-CAN_CANR_Fibre_Modules_STEP_File.zip

Woodward P/N 8445-1050 DL-CAN-FD-R-FV / 2X13 MM-SC

https://www.eks-engel.de/en/products/industrial-network-technology/interface/the-dl-can-fv-dl-can-r/

which refers to: Ring Coupler for CAN FD Networks: DL CAN-FV

Former & OLD part numbers

Woodward's latest part number, 8445-1050 DL-CAN-FD-R-FV / 2X13 MM-SC, is not backward compatible on the fiber side because the protocol has changed. As a result, it does not connect with previous V2 and V3 versions.

Woodward P/N 8445-1048 DL-CANR **V2** REDUNDANT CAN FIBER OPTIC SYSTEM EKS Engel P/N 010007573 **- obsolete, do not mix V2 with new V3 converters !**

Woodward P/N 8445-1048 DL-CANR **V3** REDUNDANT CAN FIBER OPTIC SYSTEM EKS Engel P/N 01000-8273-V3

Woodward P/N 8445-1049 DL-CAN **V2** CAN FIBER OPTIC SYSTEM EKS Engel P/N 010007423

Please contact EKS directly if you need to modify or expand larger existing applications. There are options that we do not promote or support on our side.