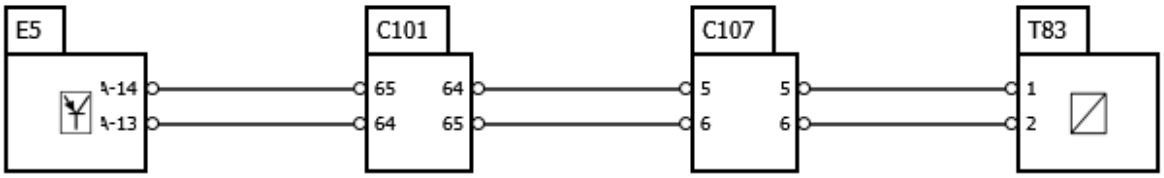
YS2R6X400E9183445 / GMS, Gearbox management system / E 5, GMS control unit / OPC / T, Sensors and monitors / T83, Rotational speed sensor for output shaft



T83, Rotational speed sensor for output shaft

T83, Rotational speed sensor for output shaft

T83 indicates the speed of the mainshaft in the gearbox.

T83 is an inductive frequency sensor which is fitted on the left-hand side of the rear gearbox housing. When the pulse wheel on the mainshaft rotates, the magnetic flow in the coil is converted into alternating current. The frequency of the alternating current is proportional to the speed of rotation.The signal is used to calculate the speed of the vehicle and to confirm the accuracy of other speed signals coming from the ABS/EBS and the tachograph.The design of the pulse wheel allows the control unit to determine whether the vehicle is being driven forwards or is reversing.

Resistance: 1,050 ohms at +20 degrees C.

Propeller shaft speed for the output shaft from the gearbox

If the rotational speed sensor is disengaged or breaks, the rotational speed sensor output signal from the OPC control unit is replaced by a value calculated by the control unit. The replacement value is based on the drive wheel speed sent by BMS on the CAN bus. The rotational speed value displayed is therefore reliable even if the rotational speed sensor is faulty.

1. Analysing fault codes.
2. Measuring manually if necessary.