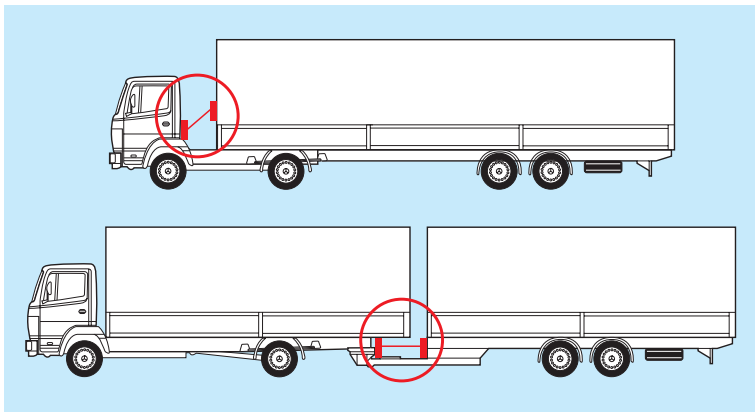


# 24 V Trailer Electrical System



## 7-Pole 24 V System

**N Model: Contact assignment according to ISO 1185**

Contact No.	Function	Colour of wire insulation	Max. cable cross section
1/31	Earth	white	2.5 mm <sup>2</sup>
2/58L*	Left tail lamp, position lamp, clearance lamp and number plate lamp	black	1.5 mm <sup>2</sup>
3/L	Turn indicator, left	yellow	1.5 mm <sup>2</sup>
4/54	Brake lamps	red	1.5 mm <sup>2</sup>
5/R	Turn indicator, right	green	1.5 mm <sup>2</sup>
6/58R*	Right tail lamp, position lamp, clearance lamp and number plate lamp	brown	1.5 mm <sup>2</sup>
7/ZEN	Brake controller for trailer	blue	1.5 mm <sup>2</sup>

\* The number plate lighting must be connected so that no lamp of this device is connected to the two contacts 2 and 6.

## 15-Pole 24 V System

**Contact assignment according to ISO 12098**

Contact No.	Function	Colour of wire insulation	Max. cable cross section
1	Turn indicator, left	yellow	1.5 mm <sup>2</sup>
2	Turn indicator, right	green	1.5 mm <sup>2</sup>
3	Rear fog lamp	blue	1.5 mm <sup>2</sup>
4	Earth (for circuit contact No. 1-7)	white	2.5 mm <sup>2</sup>
5	Left tail lamp, position lamp, clearance lamp and number plate lamp*	black	1.5 mm <sup>2</sup>
6	Right tail lamp, position lamp, clearance lamp and number plate lamp*	brown	1.5 mm <sup>2</sup>
7	Brake lamps	red	1.5 mm <sup>2</sup>
8	Reversing lamp	pink	1.5 mm <sup>2</sup>
9	Power supply (contin. positive)	orange	2.5 mm <sup>2</sup>
10	Brake-lining wear sensor	grey	1.5 mm <sup>2</sup>
11	Pressure sensor for spring brake	white/black	1.5 mm <sup>2</sup>
12	Axle lift device	white/blue	1.5 mm <sup>2</sup>
13	Earth for data cable	white/red	2.5 mm <sup>2</sup>
14**	CAN H data cable	white/green	1.5 mm <sup>2</sup>
15**	CAN L data cable	white/brown	1.5 mm <sup>2</sup>

\* The number plate lighting must be connected so that no lamp of this device is connected to the two contacts 5 and 6.

\*\* In accordance with ISO 11992-1 and ISO 11992-2

**S Model: Contact assignment according to ISO 3731**

Contact No.	Function	Colour of wire insulation	Max. cable cross section
1/31	Earth	white	2.5 mm <sup>2</sup>
2/58L	Not connected	black	1.5 mm <sup>2</sup>
3/L	Reversing lamp	yellow	1.5 mm <sup>2</sup>
4/54	Power supply	red	2.5 mm <sup>2</sup>
5/R	Control via earth	green	1.5 mm <sup>2</sup>
6/58R	Additional power supply	brown	2.5 mm <sup>2</sup>
7/ZEN	Rear fog lamp	blue	1.5 mm <sup>2</sup>

## 24 V Brake System

**Contact assignment according to ISO 7638**

Contact No.	Function	Colour of wire insulation	Max. cable cross section
EBS	ABS		
1	1	Pos. solenoid valve	red 4.0 mm <sup>2</sup> or 6.0 mm <sup>2</sup>
2	2	Pos. electronics	black 1.5 mm <sup>2</sup>
3	3	Neg. electronics	yellow 1.5 mm <sup>2</sup>
4	4	Neg. solenoid valve	brown 4.0 mm <sup>2</sup> or 6.0 mm <sup>2</sup>
5*	5*	Warning device	white 1.5 mm <sup>2</sup>
6**	-	CAN H	white/green 1.5 mm <sup>2</sup>
7**	-	CAN L	white/brown 1.5 mm <sup>2</sup>

\* The warning device is checked via Contact No. 5.

\*\* In accordance with ISO 11992-1 and ISO 11992-2