

YS2R6X400E9183544 / VIS, Visibility system / E 32, CUV control unit / CUV1 / S, Switches / S141, Direction indicator and wiper lever

E 32, CUV control unit

The CUV control unit has three multipin connectors and a 2-pin connector for the voltage supply. It comprises a driver stage which functions as a fuse in the event of overloading. The control unit receives information from the visibility system switch and controls and from other systems via the CAN link. It interprets the information and activates the requested functions or sends messages via the CAN link to other control units.

The control unit has three multipin connectors (15-, 18- and 21-pin) and a 2-pin connector for the voltage supply. Connector CCon-

Pin	Description	Signal type	Source/Destination
A 1-2	Voltage supply for CUV	Input signal, +24 V	C55
B1	Horn	Output signal, +24 V	Horn
B2	Activate the reversing light relay	Output signal, +24 V	Relay R24
B3	Activate the brake light relay	Output signal, +24 V	Relay R8
B4	Main beam LH	Output signal, +24 V	Main beam LH
B5	Ground		G14
B6	Windscreen wipers, low speed	Output signal, +24 V	Wiper motor
B7	Dipped beam RH	Output signal, +24 V	Dipped beam on the right-hand side
B8	Wiper speed interval	Input signal, analogue	Direction indicator and wiper lever
B9	Not used		
B10	Windscreen washer	Output signal, +24 V	Windscreen washer
B11	Starter key is in the drive position	Input signal, +24 V	Starter lock
B12	CANL	CAN	
B13	Windscreen wipers, high speed	Output signal, +24 V	Wiper motor
B14	Not used		
B15	CANH	CAN	

nector D

Pin	Description	Signal type	Source/Destination
C1	Indicator lamp for hazard warning signal	Output signal, +24V	Lighting switch module S139
C2	Activate the horn	Input signal, ground	Signal switch in the steering wheel
C3	Activate the main beam flasher	Input signal, ground	Direction indicator and wiper lever
C4	Dipped beam LH	Output signal, +24V	Dipped beam on the left-hand side
C5	Activate the bumper-mounted spotlight	Input signal, ground	Extra lighting module S140
C6	Activate the sun visor-mounted spotlight	Input signal, ground	Extra lighting module S140
C7	Main beam RH	Output signal, +24V	Main beam on the right-hand side
C8	Ground	Ground	G14
C9	Activate work light	Input signal, ground	Extra lighting module S140
C10	Direction indicator front right	Output signal, +24V	Direction indicator front right
C11	Activate hazard warning signal	Input signal, ground	Lighting switch module S139
C12	Activate the parking lighting	Input signal, ground	Lighting switch module S139
C13	Direction indicator rear left	Output signal, +24V	Direction indicator rear left
C14	Lighting off/parking light	Input signal, ground	Lighting switch module S139
C15	Activate the direction indicator, RH side	Input signal, ground	Direction indicator and wiper lever
C16	Headlamp wipers	Output signal, +24V	Headlamp wiper Headlamp washer
C17	Switch for main/dipped beam	Input signal, ground	Direction indicator and wiper lever
C18	Activate the direction indicator, LH side	Input signal, ground	Direction indicator and wiper lever

Pin	Description	Signal type	Source/Destination
D1	Rear foglight	Output signal, +24V	Rear foglight

D2	Direction indicator, rear right on trailer	Output signal, +24V	Trailer socket
D3	Activate dipped beam/parking lights	Input signal, ground	Lighting switch module S139
D4	Direction indicator, rear left on trailer	Output signal, +24V	Trailer socket
D5	Activate the windscreen washer	Input signal, ground	Direction indicator and wiper lever
D6	High-mounted headlamps indication	Input signal, ground	Switch for e.g. snow plough lighting
D7	Sun visor-mounted spotlight	Output signal, +24V	Sun visor-mounted spotlights
D8	Activate front foglight	Input signal, ground	Front foglight
D9	Extra connection		
D10	Direction indicator rear right	Output signal, +24V	Direction indicator rear right
D11	Activate rear foglight	Input signal, ground	Extra lighting module S140
D12	Washer fluid level indication	Input signal, ground	Washer container
D13	Work light	Output signal, +24V	Work light
D14	Extra connection		
D15	Windscreen wiper end position	Input signal, ground	Wiper motor
D16	Direction indicator, front left	Output signal, +24V	Direction indicator, front left
D17	Activate the windscreen wiper, high or low speed	Input signal, analogue	Direction indicator and wiper lever
D18	Activate electrical equipment with high current consumption	Output signal, +24V	Relay 19
D19	Bumper-mounted spotlight	Output signal, +24V	Bumper-mounted spotlights
D20	Front foglight	Output signal, +24V	Front foglight
D21	Activate the parking light relay	Output signal, +24V	Relay 21

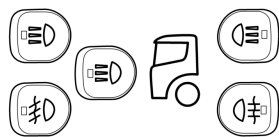
S 140, Extra lighting module

All switches are spring-loaded. When the switch is depressed, the control unit input is grounded which should then activate the requested function. The LED in the button comes on and is grounded with a PWM signal via the control unit input. Switches S18 and S58 are the same button. Switches S9 and S182 are located in the same place (depending on equipment).

- S8 - Rear foglight switch
- S9 - Front foglight switch
- S10 - Switch for spotlights in bumper
- S18 - Switch for work light, fifth wheel
- S27 - Switch for spotlights in sun visor
- S58 - Switch for work light
- S182 - Switch for daytime running lights with LED

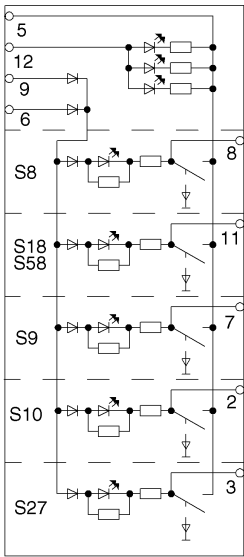
Pin	Description	Comments
1	Not used	
2	Spotlights in bumper (S10).	Internally connected to pin 5 when the button is depressed. When the button is released, an internal connection is made to pins 6 and 9 via an LED in the button.
3	Spotlights in sun visor (S27).	Internally connected to pin 5 when the button is depressed. When the button is released, an internal connection is made to pins 6 and 9 via an LED in the button.
4	Not used	
5	Ground connection	
6	Power supply to button illumination.	On 15-supply
7	Front foglight (S9). Daytime running lights with LED (S182).	Internally connected to pin 5 when the button is depressed. When the button is released, an internal connection is made to pins 6 and 9 via an LED in the button.
8	Rear foglight (S8).	Internally connected to pin 5 when the button is depressed. When the button is released, an internal connection is made to pins 6 and 9 via an LED in the button.
9	Power supply to button illumination.	For parking light
10	Not used	
11	Work light (S18/S58)	Internally connected to pin 5 when the button is depressed.

When the button is released, an internal connection is made to pins 6 and 9 via an LED in the button.		
12	Voltage supply to symbol lighting	Internally connected to pin 5.



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S 140, Extra lighting module



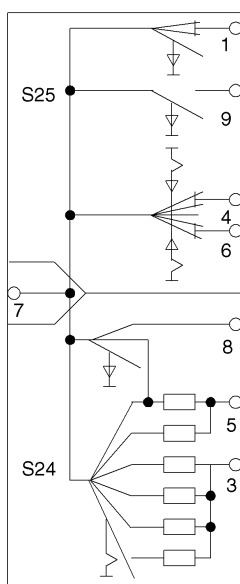
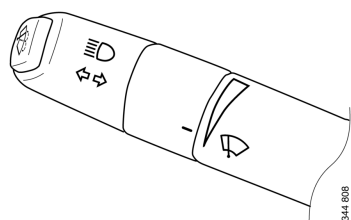
S 140, Extra lighting module

S 141, Direction indicator and wiper lever

Direction indicator and wiper lever.

Pin	Description	Comments
1	main beam flasher	Internally connected via a breaker switch to pin 7.
2	Not used	
3	Wiper, interval	Internally connected via four different resistances to pin 7. When the interval wiper button is turned, the resistance between pins 3 and 7 is changed as follows: Position 1 – 68.5 ohms. Position 2 – 149.8 ohms. Position 3 – 300.2 ohms. Position 4 – 0.680 kohms
4	Direction indicator, right-hand side	Internally connected via a breaker switch to pin 7.
5	Wiper motor, high and low speed	Internally connected via two different resistances to pin 7. When the button is turned to low or high speed, the resistance between pins 5 and 7 will change. There is also an internal connection between pins 5 and 7 across the button for washing and wiping the windscreen. When the button is depressed to position 1, this connection is made.
6	Direction indicator, left-hand side	Internally connected via a breaker switch to pin 7.
7	Ground	Grounding the switch connector
8	Washing and wiping the windscreen	Internally connected via a breaker switch to pin 7. When the button is depressed to position 2, this connection is made.
9	Main and dipped beam	Internally connected via a breaker switch to pin 7.

S 141, Direction indicator and wiper lever



S 141, Direction indicator and wiper lever