

Relay Terminal Designations according to DIN 72552

Terminal	Designation	Terminal	Designation
15	Switch-controlled plus downstream from battery (from ignition switch)	84	Current relay Input: Actuator and relay contacts
15a	In-line resistor terminal leading to coil and starter	84a	Output: Actuators
30	Line from battery positive terminal (direct)		Switching relay
30a	Series/parallel battery switch 12/24V Line from battery positive terminal II	85	Output: Actuator (negative winding end or ground)
31	Return line from battery negative terminal or ground (direct)	86	Input: Actuator
31b	Return line to battery negative terminal or ground via switch or relay (switch-controlled ground)	86a	Start of winding Start of winding or first winding coil
31a	Battery changeover relay 12/24 V Return line to Battery II negative pole		Relay contact for NC and changeovers contacts
48	Terminal on starter and start-repeating relay for monitoring starting process	87	Input
49	Flasher relay (pulse generator) Input	87a	First output (NC-contact side)
49a 49b	Output Output to second flasher relay	87b	Second output
50	Starter Starter control (direct)	87c	Third output
50a	Battery switching relay Output for starter control	87z	First input
50b	Starter control Dual starters in parallel operation with sequential control	87y	Second input
50c	Starting relay for sequential control of engagement current for dual starters in parallel operation	88	Relay contact for NO contact Input
50d	Starter I input at starter relay Starter II input at starter relay		Relay contact for NO contact and changeover contacts (NO side)
50e	Start-locking relay Input	88a	First output
50f	Output	88b	Second output
50g	Start repeating relay Input		Relay contact for NO contact
50h	Output	88z	First input
52	Trailer signalling devices Supplementary signal transmission from trailer to towing vehicle	88y	Second input
54	Trailer signalling equipment Trailer gladhand assembly and light combinations Stop lamps		Generator/alternator and voltage regulator
81	Switches, NC contacts and changeover contacts Input	B+	Battery positive terminal
81a	First output on NC-contact side	B-	Battery negative terminal
81b	Second output on NC-contact side NO contacts	D+	Generator positive terminal
82	Input	D-	Generator negative terminal
82a	First output	DF	Generator field winding
82b	Second output	DF1	Generator field winding 1
82z	First input		Alternator
82y	Second input	U, V, W	Three-phase terminals
83	Input		Turn signals (turn signal flasher)
83a	Output (Pos. 1)	C	Indicator lamp 1
83b	Output (Pos. 2)	C0	Main terminal connection for indicator lamp not connected to turn-signal flasher
83L	Output (Pos. left)	C2	Indicator lamp 2
		C3	Indicator lamp 3 (eg for dual trailer operations)
		L	Left-side turn signals

