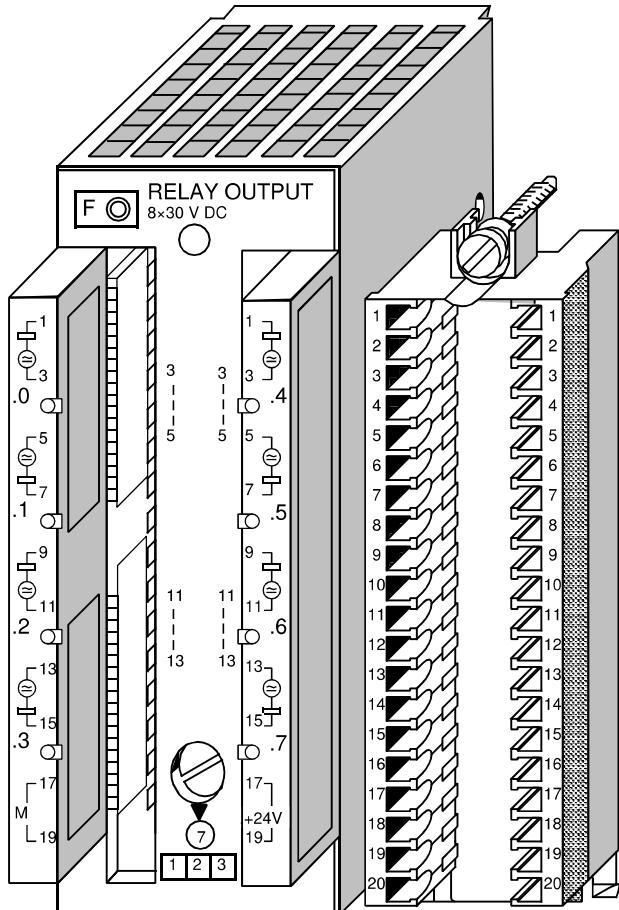
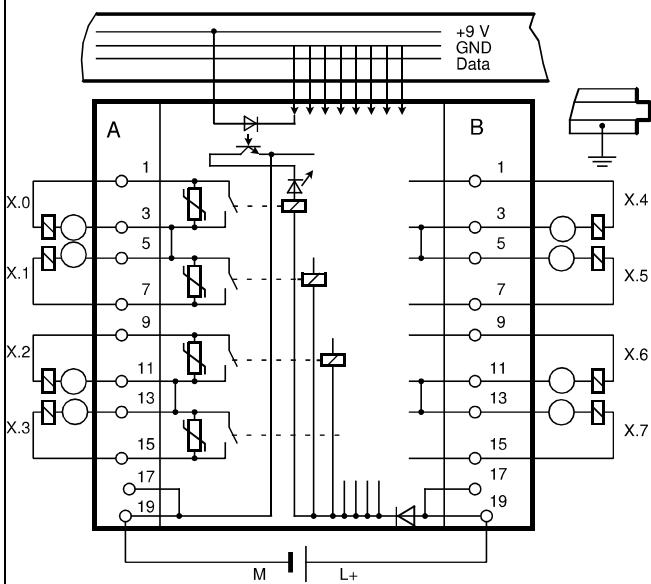


Relay Output Module 8 x 30 V DC/230 V AC
Crimp Snap-in Connector, 40-pin
Screw Plug Connector, 20-pin
Screw Plug Connector, 40-pin

(6ES5 451-8MR12)
(6ES5 490-8MA13/-8MA03)
(6ES5 490-8MB21)
(6ES5 490-8MB11)

		Technical specifications	
Outputs		8 relay outputs, contact switching varistor SIOV- S07-K275	
Galvanic isolation	yes	- in groups of	2 with signal status display
Continuous current I_{th}	3 A	Relay type	Dold OW 5699
Switching capacity of the contacts		Switching capacity of the contacts	
- resistive load	max.	max.	3 A at 250 V AC 1.5 A at 30 V DC
- inductive load	max.	max.	0.5 A at 250 V AC 0.5 A at 30 V DC
Operating cycles of the contacts according to VDE 0660, part 200		Operating cycles of the contacts according to VDE 0660, part 200	
- AC - 11		- AC - 11	1×10^6
- DC - 11		- DC - 11	0.5×10^6
Switching frequency	max.	10 Hz	
Fault LED (red)		no input voltage	
Permissible ambient temperature of module		Permissible ambient temperature of module	
- horizontal arrangement		- horizontal arrangement	0 to 60 °C (32 to 140 °F)
- vertical arrangement		- vertical arrangement	0 to 40 °C (32 to 104 °F)
Length of cable	max.	100 m (330 ft.)	
- unshielded		VDE 0160	
Insulation rating			
Rated insulation voltage (+ 9 V to L 1)		Rated insulation voltage (+ 9 V to L 1)	250 V AC
- insulation group		- insulation group	2 x B
- tested with		- tested with	1500 V AC
Rated insulation voltage (+ 9 V to \perp)		Rated insulation voltage (+ 9 V to \perp)	12 V AC
- insulation group		- insulation group	1 x B
- tested with		- tested with	500 V AC
Rated insulation voltage (between contacts)		Rated insulation voltage (between contacts)	250 V AC
- insulation group		- insulation group	2 x B
- tested with		- tested with	1500 V AC
Supply voltage L+		Supply voltage L+	
(for the relay)		(for the relay)	
- rated value	max.	rated value	24 V DC
- ripple V_{PP}		ripple V_{PP}	3.6 V
- permissible range (ripple included)		permissible range (ripple included)	20 to 30 V
- value to $t < 0.5$ s		value to $t < 0.5$ s	35 V
Current consumption	typ.	from + 9 V (CPU)	30 mA
- from L+	typ.	from L+	70 mA
Power loss of the module	typ.		1.6 W
Weight	approx.		300 g (11 oz.)

	
X.0 X.1 X.2 X.3	A B X.4 X.5 X.6 X.7