ELECTRIC ROLLER SHUTTERS AND CURTAIN RAILS
Control

The functionality of the INTEGRA control panel may be successfully used to introduce a better quality to everyday life. The automatic control of electric roller shutters is an example of one of such functions of the control panel. When all residents leave their house, the system automatically lowers all roller shutters and the alarm system enters a stand-by mode. Opening the window with a lowered roller shutter may cause the roller shutter to be lifted up, which facilitates the flow of fresh air. Roller shutters control can also be associated with implementation of the automation scenarios available in INT-KSG keypads as well as INT-TSG, INT-TSH and INT-TSI touchscreen keypads. For example, when adapting the room for a film to be shown with a projector, the system may not only lower the overhead projector, but also lower the roller shutters and adjust lighting in the living room according to viewers' preferences.
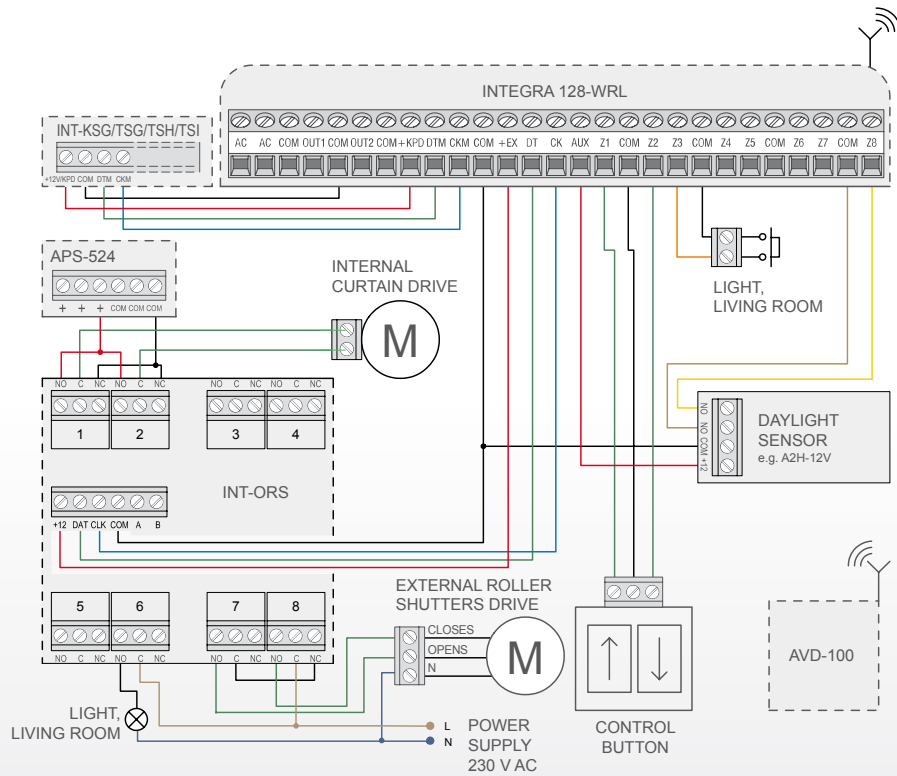
Implementation example:
Roller shutters lower automatically when the alarm system is armed. Opening the window to air the rooms automatically lifts up the roller shutters to enable the flow of fresh air. Switching the light on in a room lowers the roller shutters to prevent anyone outside seeing what is taking place inside the house. When the alarm system is disarmed, the roller shutters lift only if it is light outside, in accordance with the signals received by the daylight detector. If the curtains have been previously opened, they always close when the external roller shutters lift up in order to prevent anyone outside seeing what is taking place inside the house. In addition, the roller shutters and the curtains can be operated manually using the INT-KSG, INT-TSG, INT-TSH or INT-TSI keypad.

Method of operation:
Inside the house, the INTEGRA control panel, via the INT-ORS module, controls the external roller shutters, the automatic curtain rail and the lighting. The method of the roller shutters' engine wiring aims to protect it against the application of voltage on both control cables when the control panel is programmed incorrectly. The control push-buttons of the instantaneous type are connected to the main board. In order to minimise the delays, the reaction time and the return time have been reduced for the control inputs.

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Wiring diagram: INTEGRA 128-WRL with INT-KSG/TSG/TSH/TSI keypad, APS-524 power supply, INT-ORS module, INTERNAL CURTAIN DRIVE (M), EXTERNAL ROLLER SHUTTERS DRIVE (M), LIGHT LIVING ROOM, DAYLIGHT SENSOR (e.g. A2H-12V), AVD-100, CONTROL BUTTON, POWER SUPPLY 230 V AC.

input configuration

No.	Zone name	Part.	Wiring type	Sensitivity	Zone type	Entry delay	Max.Viol. Tim	Max.No Viol.	Powe	Priori	Video	Video	Bypas	Bypas	Auto-r	Auto-	Cleari	Pre-al
1	Button Up	1	2: NO	100 ms.	47: No alarm action	0 sec.	0 sec.	0 h.										
2	Button Down	1	2: NO	100 ms.	47: No alarm action	0 sec.	0 sec.	0 h.										
3	Button Lights	1	2: NO	100 ms.	47: No alarm action	0 sec.	0 sec.	0 h.										
4	Zone 4	1	0: Not used	100 ms.	47: No alarm action	0 sec.	0 sec.	0 h.										
5	Zone 5	1	0: Not used	320 ms.	5: Instant	0 sec.	0 sec.	0 h.										
6	Zone 6	1	0: Not used	320 ms.	5: Instant	0 sec.	0 sec.	0 h.										
7	Zone 7	1	0: Not used	320 ms.	5: Instant	0 sec.	0 sec.	0 h.										
8	Twilight Detect.	1	2: NO	1000 ms.	47: No alarm action	0 sec.	0 sec.	0 h.										
9	Open the window	1	5: 2EOL/NO	100 ms.	4: Perimeter	0 sec.	0 sec.	0 h.										
10	Vibration	1	5: 2EOL/NO	100 ms.	4: Perimeter	0 sec.	0 sec.	0 h.										

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No.	Zone name	Part.	Wiring type	Sensitivity	Zone type	Entry delay	Max.Viol. Tim	Max.No Viol.							Auto-			
126	Disarm Light	1	8: follow output	OUT:125	47: No alarm action	0 sec.	0 sec.	0 h.										
127	Lowering	1	8: follow output	OUT:14	47: No alarm action	0 sec.	0 sec.	0 h.										
128	Turn Off	1	8: follow output	OUT:128	92: Outputs group OFF	gr.Keypad7, "v"	0 sec.	0 h.							×			

List: Keypad7, code+"v"

Outputs:
1 2 3 4 5 6 7 8 9 10 11 12 13 **14** 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128

1F 07 03   ✓ OK

output configuration

No.	Output name	Output function	Cut off time	Pol.+	Puls.	Latch	Triggering:	Triggering:	Triggering: P	Ala
9	Curtain Open	105: Shutter up	0 min. 20 sec.	×		T:1..32	zones: 9		-	
10	Curtain Close	106: Shutter down	0 min. 20 sec.	×		T:1..32	zones: 1,125÷126		1	
11	Output 11	0: Not used	0 min. 0 sec.	×						
12	Output 12	0: Not used	0 min. 15 sec.	×						
13	Output 13	0: Not used	0 min. 30 sec.	×						
14	Lights Living room	25: BI switch	0 min. 30 sec.	×			zones: 3		1÷32	
15	Shutter Up	105: Shutter up	0 min. 20 sec.	×		T:1..32	zones: 1,9,126		-	
16	Shutter Down	106: Shutter down	0 min. 20 sec.	×		T:1..32	zones: 2,126÷127		1	

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No.	Output name	Output function	Cut off time	Pol.+	Puls.	Latch	Triggering:	Triggering:	Triggering: P	Ala
125	Disarm Light	46: Outputs logical AND	0 min. 30 sec.	×			outputs: 126÷127			
126	Bright	17: READY status	0 min. 30 sec.	×			zones: 8			
127	End of Arm Statu	83: Outputs Off	0 min. 1 sec.	×			outputs: 128			
128	Arm status	42: Power supply on arme	0 min. 30 sec.	×					1	