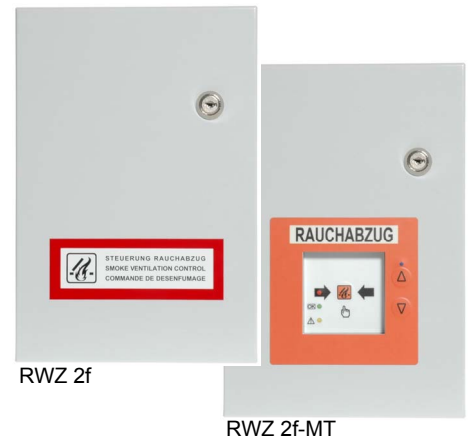


1 Concept of Control Centre

- Smoke and Heat Exhaust Ventilation System (SHEVS) Control Centre with output for the connection of 24 V- actuators
- One SHE group, two signal lines:
 - Line : Automatic fire detectors or Fire Alarm Control Panel (FACP)
 - Line : Manual call points **RT 3** (main alarm point) with indicators operation , alarm , malfunction  and button *Reset* 
- Reset the alarm / detector using the button in the main alarm point or in the Control Centre
- Selectable functions:
 - “Auto close” (automatic closure after resetting an alarm)
 - “Malfunction = Alarm” (alarm upon malfunction of a signal line)
 - “Automatic OFF” (automatic travel commands - apart from the alarm - are disabled)
 - “Thermal alarm” (alarm on exceeding an enclosure inside temperature of 70 °C)
- Possibility of connecting ventilation buttons, also with indication of position OPEN
- Adjustable ventilation position  and ventilation time 
- Possibility of connecting an external Wind and Rain Control (WRC), e.g. type **WRS**
- Internal service display for detailed status information for installation and maintenance
- Plug-in connection terminals (apart from actuator output)
- The use of K + G / Grasl actuators is recommended. When driving third-party actuators, compatibility is to be checked! Also note Section 2 “Technical data”
- Actuator specification: 24 V actuators, travelling time for full stroke at rated load (total travelling time) < 4 min.
- Actuators must be suitable for the repetition of OPEN and / or CLOSE cycle
- Upon direct change of the sense of travel, the actuators are briefly stopped before changing the sense
- The travelling current for the actuators is supplied from the Control Centre’s accumulators
- Sheet steel enclosure, light grey (RAL 7035)



1.1 Options

- **PK**: One potential-free contact (PFC) each for alarm / malfunction forwarding
- **MT**: Enclosure door with integrated manual call point, ventilation button and indication of position

2 Technical data

2.1 Version

Type	RWZ 2-4f
Product code (with option MT)	8100 2604 0000 (8100 2604 0001)
Output current	4 A (24 V $\overline{\text{---}}$ / 96 W)
Current input	0.1 A / 230 V $\sim$
Lead-acid accumulators, VdS approved	2 x 2 Ah / 12 V
I / U charging	0.15 A (28.8 V) / 27.4 V
Dimensions in mm (W x H x D)	205 x 300 x 100

The Control Centre complies with the requirements of the 2006/95/EC and 2004/108/EC Directives (emission: EN 61000-6-3 and EN 55022, immunity: EN 61000-6-2 and EN 50130-4).

2.2 Performance data and characteristics

General

Line voltage supply	230 V~ / 50 - 60 Hz
Internal voltage supply / standby time	24V= / 72 h (mains failure)
Cable feed	from above, below or behind
Environmental Class 1 / III (to EN 12101-10 / VdS 2581)	-5 °C ... +40 °C
Relative humidity	20 % ... 80 %, non-condensing
Enclosure protection rating (to DIN EN 60529)	IP30
Not suitable for use outdoors. Protect from direct sunlight, humidity and excessive formation of dust! Preferably, the installation should be carried out in dry, heated rooms.	

Signal lines

Line monitoring	wire-break, short-circuit
Line  : Automatic fire detectors: Smoke detector / heat detector (RM 2 / TM 2 or RM 3 / TM 3) or Fire Alarm Control Panel: - Terminating resistor - Alarm resistor	20 pieces normally open contact 10 kΩ (± 10 %, ¼ W) 1 kΩ ... 1.5 kΩ (± 10 %, ½ W)
Line  , manual call points: Main alarm point (RT 3-*-BS)	10 pieces

In- / Outputs

Ventilation button (LT)	unlimited
Ventilation button with indication of position OPEN (LT 2-A)	10 pieces
Wind and Rain Control (type WRS)	normally closed contact ¹

Actuator output

Rated voltage	24 V= (+6 V / -4 V)
Max. cross-section of supply line	4 x 6 mm² (rigid)
Allowed voltage drop between Control Centre and actuator	1 V at full load
Line monitoring (unbranched common line)	wire-break, short-circuit

Allowed cable length with simple and moderately branched arrangement of the actuators

Current Cross section	0.8 A	1.0 A	1.3 A	1.6 A	2.0 A	2.6 A	3.2 A	4.0 A
2 x 1.5 mm²	54 m	44 m	33 m	27 m	22 m	17 m	14 m	11 m
2 x 2.5 mm²	91 m	73 m	56 m	45 m	36 m	28 m	23 m	18 m
2 x 4.0 mm²	145 m	116 m	89 m	73 m	58 m	45 m	36 m	29 m
2 x 6.0 mm²	218 m	174 m	134 m	109 m	87 m	67 m	54 m	44 m
4 x 1.5 mm²	109 m	87 m	67 m	54 m	44 m	33 m	27 m	22 m
4 x 2.5 mm²	181 m	145 m	112 m	91 m	73 m	56 m	45 m	36 m
4 x 4.0 mm²	290 m	232 m	178 m	145 m	116 m	89 m	73 m	58 m
4 x 6.0 mm²	435 m	348 m	268 m	218 m	174 m	134 m	109 m	87 m

When 4 cores are used,
connect 2 cores each in
parallel.

Fuses

Primary mains (miniature fuse 5 x 20 mm)	F1: T 125 mA
Accumulators / actuators (miniature flat fuse 11 mm)	F2: 7.5 A

Alarm and malfunction forwarding (option PK)

Contact load rating PFC-  , PFC-  (changeover contacts)	5 A / 30 V= / 230 V~
Fuses PFC-  , PFC-  (miniature fuses 5 x 20 mm)	P:F1, P:F2: F 5 A

¹ In the WRC, use a separate contact for each connected Control Centre