



Type series FZL / FZZL / FZDL

fixed resistors in laboratory design 65 – 3000 W



FZL 200x35

IP  
20

Cemented wirewound tubular fixed resistor in one-, two- or three-tube design, in laboratory version, enclosure with aluminium coloured varnish and rubber feet. Degree of protection IP 20.

### Technologies

- 2 safety sockets 4 mm
- 1 earthing safety socket 4mm
- completely closed enclosure
- rubber feet for location on tables

The safety sockets form a secure 4 mm plug system together with the adjusted safety plugs, which are protected by rigid insulation coverings. So you cannot touch any blank energised parts. The use of conventional 4 mm plugs is possible; we do not provide a lug connection.

### Application

These resistors are suitable for educational modelling and experimenting applications, for load testing in laboratories, schools and universities as well as for manufacturing. Engineering consultants and development divisions use these handy devices.

### Special design

- individual varnish on request
- with micro-fuse

### Electrical and mechanical data

| Type series | typical power in W at 40°C, 100% DCF | production range $\Omega$ -value |      | dimension in mm |     |     | approx. weight in kg |
|-------------|--------------------------------------|----------------------------------|------|-----------------|-----|-----|----------------------|
|             |                                      | from                             | to   | H               | O   | R   |                      |
| FZL 100x35  | 65                                   | 0,22                             | 22k  | 82              | 137 | 66  | 0,5                  |
| FZL 200x35  | 150                                  | 0,56                             | 47k  | 82              | 237 | 66  | 0,7                  |
| FZL 160x45  | 150                                  | 0,47                             | 33k  | 92              | 206 | 75  | 0,7                  |
| FZL 200x45  | 180                                  | 0,68                             | 39k  | 92              | 246 | 75  | 0,8                  |
| FZL 300x45  | 300                                  | 1,2                              | 56k  | 92              | 346 | 75  | 1,1                  |
| FZL 300x65  | 430                                  | 6,8                              | 47k  | 125             | 346 | 92  | 1,8                  |
| FZL 400x65  | 600                                  | 10                               | 68k  | 125             | 446 | 92  | 2,3                  |
| FZZL 300x65 | 860                                  | 3,9                              | 82k  | 125             | 346 | 185 | 3,6                  |
| FZZL 400x65 | 1200                                 | 5,6                              | 120k | 125             | 446 | 185 | 4,4                  |
| FZZL 500x65 | 1600                                 | 6,8                              | 150k | 125             | 546 | 185 | 5,4                  |
| FZZL 600x65 | 2000                                 | 8,2                              | 180k | 125             | 646 | 185 | 6,4                  |
| FZDL 500x65 | 2400                                 | 3,9                              | 150k | 125             | 546 | 275 | 7,8                  |
| FZDL 600x65 | 3000                                 | 5,6                              | 180k | 125             | 646 | 275 | 9,2                  |

