# **Type 499**



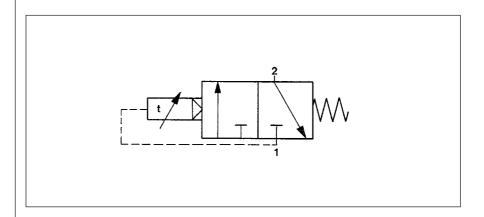
### TECHNICAL DATA

# **Pneumatic Timer**

- Low-cost
- DIN dimensions
- Requires little space for installation
- Pressure-independentNo continuous air supply equired
- Stationary preset value

Display	digit roll
Time range	0.2 3 s, 2 30 s or 20 300 s, depending on version
Operating pressure	2 6 bar
Air quality	oilfree
Filter pore width	< 40 μs
Operating temperature	0 + 60 °C
Connection	hose coupler M5 or rapid-fit connection,
	depending on version
Mounting	clamping spring or DIN rail attachment
Protection class (IEC 144)	IP 40
Weight	approx. 50 g
Input	timer is started when input 1 is pressurized
Time setting	continuous with rotary knob
Timing range	0.2–3 s 2–30 s 20–300 s
Repeating accuracy	$\pm 0.1 \text{ s}$ $\pm 0.3 \text{ s}$ $\pm 3 \text{ s}$
Setting accuracy	$\pm 0.3 \text{ s}$ $\pm 0.6 \text{ s}$ $\pm 6 \text{ s}$
Reset	by blocking air intake at input 1
Reset time	min. 200 ms
Output	after the set time has elapsed, input 1 is connected to output 2

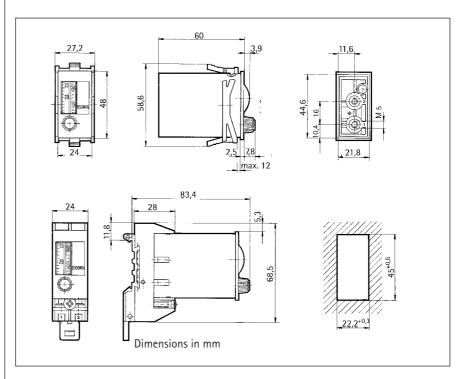
### **CONNECTION DIAGRAM**



# Technical data

# **Type 499**

### **DIMENSIONED DRAWINGS**



### **ORDER INFORMATION**

Timer

Panel frame

Accessories

	Time range	Time range	Time range	
Connection	0.2 3 s	2 30 s	20 300 s	
Hose coupler M5	0 499 520	0 499 500	0 499 550	
Rapid-fit connection	0 499 521	0 499 501	0 499 551	

Dimensions	Installation dimensions	Ordering code
48 x 48 mm	45 x 45 mm	2 405 219
52 x 52 mm	45 x 45 mm	2 405 220
54 x 29 mm	50 x 25 mm	2 405 218
Ø 59 mm	Ø 50 mm	2 405 224
60 x 75 mm	52 x 52 mm	1 499 512
72 x 72 mm	68 x 68 mm	1 405 672

Socket for DIN rail attachment

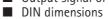
<ul> <li>Hose screw coupler</li> </ul>	1 499 511
<ul> <li>Rapid-fit connector</li> </ul>	1 499 513
Please do not forget to add one of the following	
Bypass slides to your order:	
<ul> <li>Bypass slide for 35 mm H-rail</li> </ul>	3 513 306
<ul> <li>Bypass slide for C-rail</li> </ul>	3 513 307

Automatic reset see automatic reset module

# **Automatic Reset Module**

# for Pneumatic Timers





- Compact design
- Stationary preset value



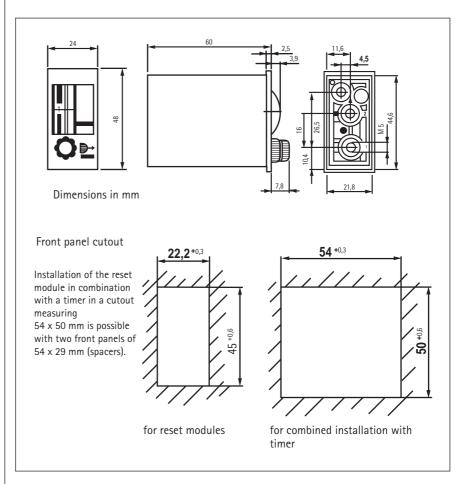
TECHNICAL DATA Pneumatic

Service pressure	2 6 bar	
Bursting pressure 12	10 bar	
Nominal pressure	4 bar	
Air quality	filtered (40 μm), non-oiled compressed air,	
	light oil mist permissible	
Input		
Response pressure	1.2 <u>+</u> 0.4 bar	
Drop pressure	0.3 ± 0.2 bar	
Pulse length	min. 30 ms	
Pause for reset	min. 200 ms	
Time ranges		
Switching delay time	adjustable from 0.2 – 2 sec.	
Signal interruption time	min. 300 ms	
Repeating accuracy	± 0.3 s	
based on switching delay time		
Temperature range		
Application class (DIN 40040)	KUG	
	K = lower temperature limit: -15 °C	
	U = upper temperature limit: + 60 °C	
	G = average relative humidity: 65 %	
	without condensation	
Storage temperature	– 25 + 70 °C	
Protection class (DIN 40050)	IP 40	
	IP 54 (with protective cover)	
Substances which inhibit		
application of paint according		
to VW test specification no. 3.10.7	none	
Dimensions	24 x 48 x 68 mm (W x H x D)	
Insertion depth without connect.	57.5 mm	
Front panel cutout	22.2 +0.3 x 45 +0.6 mm (W x H)	
	(Other front panel cutout dimensions possible with	
	additional panel frame)	
Mounting		
for front panel insertion	by means of clamping frames	
Pneum. connections	M5 or rapid-fit coupling for hoses with 4 mm	
	external diameter	
Tightening torque for connections	max. 250 Ncm	
Mounting position	any	
Weight	approx. 50 g	

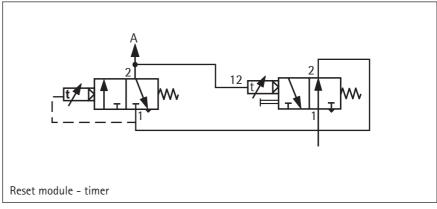
#### Mechanical

# **Automatic Reset Module**

#### **DIMENSIONED DRAWING**



### **CONNECTION DIAGRAM**



## **ORDER INFORMATION**

	Ordering code
Pneum. reset module M5	0 499 350
Pneum. reset module rapid-fit coupling	0 499 351
Front panel 54 x 29 mm	2 405 218

### Accessories

(For further accessories, please refer to the pneumatic timers)

# **Pneumatic Signal Indicator**

■ Simple installation

■ Service pressure 2...8 bar

■ Signals the operating status of pneumatic hose connections

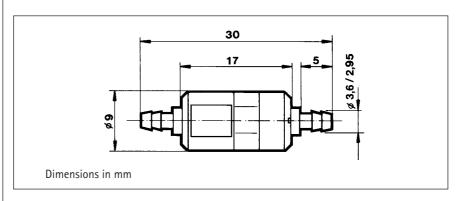
■ Connections for hoses with 2 or 3 mm inside diameter



**TECHNICAL DATA** 

yellow signal as long as a line is pressurized Indication 2 ... 8 bar filtered, light oil mist permissible < 40 µm - 15 ... + 60 °C - 25 ... + 70 °C hose with 2 or 3 mm inside diameter, dep. on version at connection hose 50 m/s2 (10 ... 500 Hz) acc. to IEC 068-2-6 500 m/s2 (5 ms) acc. to IEC 068-2-27

#### **DIMENSIONED DRAWING**



### **ORDER INFORMATION**

Signal indicator for hoses with 2 mm inside diameter	Ordering code 0 499 210	
Signal indicator for hoses with 3 mm inside diameter	Ordering code 0 499 211	