

## Door closers with free-swing arm assembly – for fire and smoke check doors

### DORMA TS 99 FL

The DORMA TS 99 FL in the Contur design is a door closer with a hold-open device featuring a free-swing function that can be used as a hold-open system in conjunction with a smoke detector

system (e.g. DORMA RMZ in the Contur design). The door is automatically and reliably closed in the event of an alarm or a power failure.

The free-swing function allows easy operation of the door due to the reduced resistance to the opening action. It remains freely operable and is not automatically closed, so facilitating ease of use for doors in heavily frequented areas.

### F Approval certification

The DORMA TS 99 FL has been tested and approved to EN 1155 by the State Material Testing Authority, Dortmund/Germany and is subject to third-party quality verification. Regular audit testing is undertaken. Test reports and/or certificates are available on request. The TS 99 FL carries the CE mark.

Additional approval certification of the relevant fire and smoke check door in combination with the closer system may be necessary – check local regulations.



TS 99 FL for transom fixing



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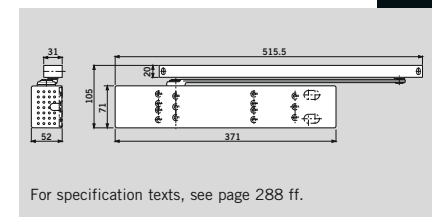
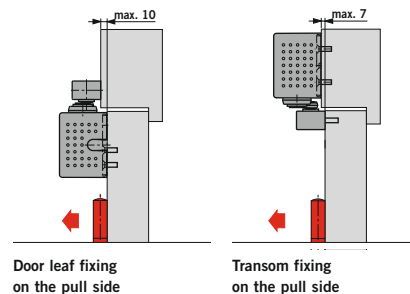
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**Application example:** Hold-open device with free-swing function on a fire and smoke check door, comprising: Door closer DORMA TS 99 FL (1); slide channel with free-swing arm (2); lintel-mounted smoke detector DORMA RMZ (3); one ceiling-mounted smoke detector DORMA RM (4) on either side of the door; manual-release switch DORMA HT (5); door stop OGRO TZ 5000 (6)

Data and features		TS 99 FL	TS 99 FLR	TS 99 FLR/K
Closing force	Spring strength	EN 4	EN 4	EN 4
Standard doors	1100 mm	•	•	•
Fire and smoke check doors	≤1100 mm	•	•	•
Non-handed		•	•	•
Slide channel		•	•	•
Closing speed adjustable by valve		•	•	•
Free-swing function		•	•	•
Weight in kg		3.5	4.9	5.1
Dimensions	Length	371	660	371
	Overall depth	52	52	52
	Height	71	71	71
Door closer compliant with EN 1154		•	•	•
Functions	Smoke detector	–	•	•
	Release device	•	•	•
	Power supply unit	–	•	•
Smoke detection	Scattered light principle, optical sensor	–	•	•
Connection of other detectors	2-wire system	–	•	•
	Smoke switches	–	•	•
Total installed load (max.) for other detectors in W		–	5.7	7.8
Indicators	Alarm – red LED	–	•	•
	Standby – green LED	–	•	•
Maintenance indicator		–	–	•
Contamination monitor		–	–	•
Input voltage		24 V DC ±15%	230 V AC ±10%	230 V AC ±10%
Output voltage		–	24 V DC	24 V DC
Power input in W		2	14.6	14.8
Floating change-over contact		–	24 V AC/DC 2 A	24 V AC/DC 2 A
Safety extra-low voltage (SELV)		–	•	•
Reset	Automatic; selector for manual reset	–	•	•
Test port for function test		–	•	•
Connection terminals for remote manual release		–	•	•
Degree of protection		–	IP 20	IP 20
Hold-open compliant with EN 1155		•	•	•
CE mark for construction products		•	•	•

• yes – no



For specification texts, see page 288 ff.