



Bus



Tram



# POLAR

## INSWINGING DOOR SYSTEMS

### Lightweight durability

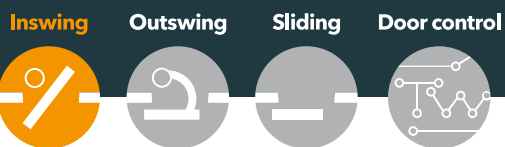
Tamware's in-swinging Polar door systems are reliable solutions designed specifically for busy public transportation within cities. This inwards opening door is especially functional as a front door, as it moves away from the flow of passengers and enables quick access to the vehicle. Polar doors can similarly be used also as a middle or a rear door, depending on the customer preferences.

The lightweight yet robust construction of the door and

tight sealing in closed state ensure low noise levels inside the vehicle. A wide range of implementation possibilities make the Polar door highly suitable for various applications.

In the open position, this in-swinging door system requires minimal space outside the vehicle. This door is available in both a single and double leaf version, and with the option of a pneumatic or electric door mechanism, which are easily convertible to one another.

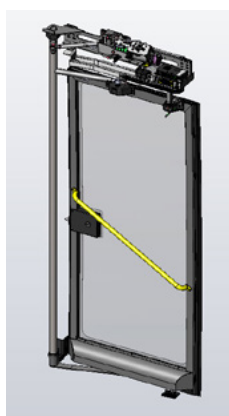
# TAMWARE PRODUCT GROUPS



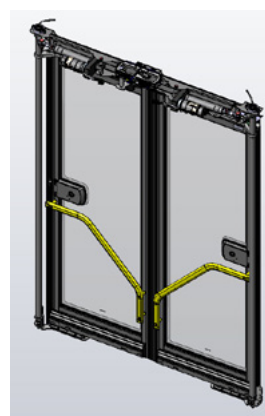
SAMPLE APPLICATIONS



**Application:**  
Bus/Tram  
**Recommended max. speed**  
80km/h  
**Actuator:**  
Electric, single door



**Application:**  
Bus/Tram  
**Recommended max. speed**  
80km/h  
**Actuator:**  
Electric, double door



PRODUCT INFORMATION

		Actuator location	Emergency releasing	Power requirement	Operating temperature options	Opening / closing time	Default safety features
	POLAR E-1L-R/L	Above the doorway	Mechanical, pneumatic	12/24 VDC	-30°C ... +80°C	2-5 sec.	Sensitive edge, current monitoring, position detection
	POLAR E-2L-S	Above the doorway	Mechanical, pneumatic	12/24 VDC	-30°C ... +80°C	2-5 sec.	Sensitive edge, current monitoring, position detection
	POLAR P-1L-R/L	Above the doorway	Mechanical, pneumatic	6-8 bar, nominal	-25°C ... +70°C	2-5 sec.	Sensitive edge/ pressure switches, position detection
	POLAR P-2L-S	Above the doorway	Mechanical, pneumatic	6-8 bar, nominal	-25°C ... +70°C	2-5 sec.	Sensitive edge/ pressure switches, position detection

All Tamware bus door products are designed according to EU Regulation ECE R107.



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