

## **Duty Cycle Declaration:**

**Manufacturer:** Lyngsoe Systems Ltd.

**Product Type Designation:** PT40

**Product description:** The PT40 Postal Tag is an RFID tag or transponder used in Automatic Mail Quality Measurements systems to permit time measurements of processing for determining the quality of service provided.

**Declaration in accordance with:** EN 300 220-1 V2.1.1 (2006-04) as per EN 300 220-2 V2.1.1 (2000-04); Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive)

**Device Trigger:** The PT40 is triggered when exposed to a 125 KHz disturbance field with a specific pattern.

**Action once triggered:** Once activated the PT40 transmits a recognition code a specific number of times and then goes to sleep.

**The Application:** The PT40 is used in Automatic Mail Quality Measurements Systems to permit time measurements of processing for determining quality of service.

**Typical Usage Pattern:** Transmission "on time" is limited to a maximum of 5 seconds and typically transmissions are completed within 2 seconds. Activation once per hour on average is highly unlikely. Typically the tags would be activated twice per day in an eight hour period. For the purpose of classification, the transmission of once per hour was used.

$$\text{Duty Cycle} = 2/3600 \times 100 = 0.06 \%$$

**Duty Cycle Class:** For typical usage the duty cycle will be class 2 (< 1%)

**Signed:**



**Name:** Don Ferguson

**Position:** President

**Date:** Apr.30, 2012