

Pepperl+Fuchs Inc. • Twinsburg, Ohio 44087 • United States

Federal Communication Commission
Equipment Authorization Division
Application Processing Branch
7435 Oakland Mills Road
Columbia, MD 21048
United States of America

Class 2 Permissive Change (C2PC) Request Letter
FCC ID: <IRE-MWL2A >, granted on 2023-11-22

Jun 22nd, 2026

Dear Sir or Madam,

Pursuant to CFR § 2.1043 and RSP-100 (Issue 12), section 10.2 we, Pepperl+Fuchs SE (for Canada) and Pepperl+Fuchs Inc. (for USA) hereby request a Class 2 Permissive Change.

Reason: Hardware Change

Modifications:

- Radar chip is replaced. The new chip component is pin-for-pin compatible, and has the same basic function as the old. No change in radio parameters has occurred.
- Loadswitch chip for turn on/off radarchip was changed
- The charge pump current was increased for higher loop bandwidth (faster lock)
- The time between PLL and VCO are settled and ramp start was decreased
- The intermediate frequency amplifier was changed to a narrowband bandpass filter for short-range phase measurement applications and has now two channels I and Q, this will not affects radio parameters (transmitted power etc.) and only affects receiver chain
- RF modulation was changed to sawtooth with 950MHz bandwidth (122.975GHz to 122.025GHz) and 250us ramp duration
- Duty cycle was increased to 25% (250us ramp time 750us off time)
- The single flex-PCBA was changed to three PCBAs (Frontend, Interface and Power) which are soldered together, therefore layout was changed
- The 5V power supply circuitry has been updated by reducing the switching regulator frequency and the input filter
- The communication interface has changed to IO-Link

The following new exhibits will be uploaded:

- Test Report and Test Setup Photos
- Schematics and PCB Layout
- Internal and external photos

Yours truly,



(signature & company stamp)

 **PEPPERL+FUCHS**

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