FI Diagnosis Code Format of the EZECU® Standalone ECUs

While connecting the ECU by dedicated EZECU® software, the FI diagnosis code can be read and cleared by the software. Besides, the riders / technicians can recognize the FI diagnosis code by checking the engine indication light directly. Let's use the FI diagnosis code 46 as an example, the flashing light timing format is shown below:
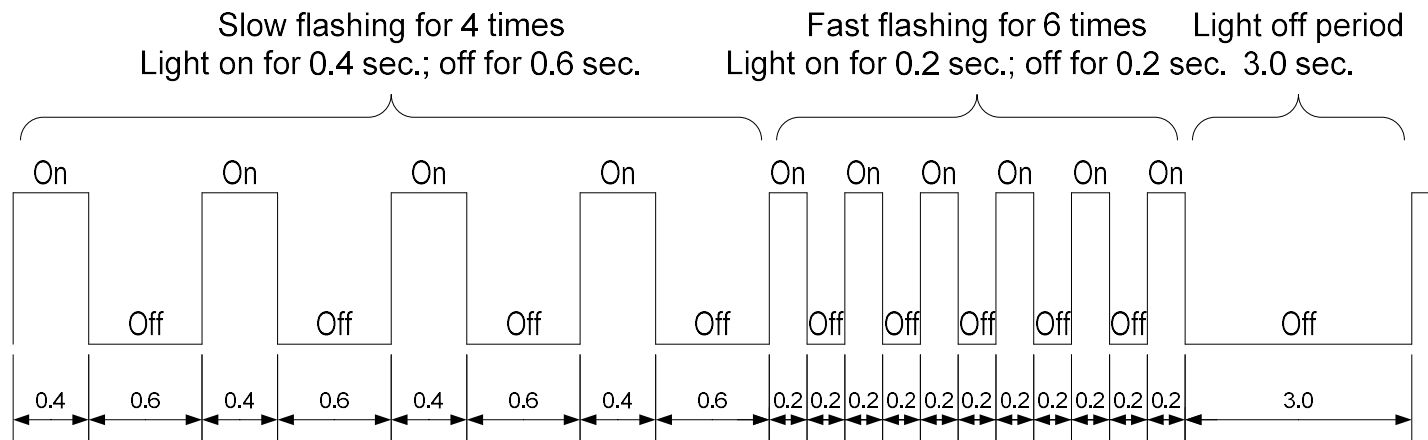

Figure 1　FI Diagnosis Code Timing Format of the Flashing Light

Table 1   FI Diagnosis Code

FI Diagnosis Code	Fault Type	Fault Analysis and Supposition	Cranking Capability	Riding Capability
13	MAP (Manifold Absolute Pressure) Sensor	MAP sensor open / short / failure.	Yes	Yes (limited output)
14		Loosened / broken manifold pipe.	Yes (3 sec. only)	No
15	TPS (Throttle Position Sensor)	TPS sensor open / short / stuck / failure / incorrect calibration.	Yes	Yes (limited output)
22	IAT (Inlet Air Temperature) Sensor	IAT sensor open / short / type error.	Yes	Yes (limited output)
24	Oxygen Sensor	Oxygen sensor failure.	Yes	Yes (limited output)
28	ENGT (Engine Temperature) Sensor	ENGT sensor open / short / type error.	Yes	Yes (limited output)
30	Tilt Sensor	Motorcycle falls down / incorrect installation angle of the tilt sensor / tile sensor open / short / failure.	No	No
46	Battery / Regulator	Over-/under-voltage of the battery / regulator or battery failure.	Yes	Yes
51	Engine Overheat	ENGT sensor open / short / over-advanced ignition angle / coolant fan failure / leakage or insufficient coolant water in the coolant system / insufficient heat-sink for the engine / incorrect setting of overheat indication.	Yes	Yes (limited output)
52	Rev. Limit	Engine max. RPM exceeds the setting / mismatched camshaft peak output / Inadequate transmission collocation.	Yes	No
53	Knock Sensor	Knock sensor failure / over-advanced ignition angle.	Yes	Yes (limited output)
54	Fuel Injector	Exceeded fuel injector duty / insufficient fuel injector flow rate.	Yes	Yes
55	BARO (Barometric) Sensor	BARO sensor open / short / failure.	Yes	Yes