Future Classification v101

Lennart Yseboodt, Matthias Wendt
Philips Lighting – Research
July 21, 2016
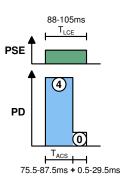
innovation ✦ you

PHILIPS

Goal

One day there might be another project that revises Clause 33[1]. If we leave behind defined behavior for unused Class codes, this can be used to create additional behavior.

The Autoclass class mechanism provides a way. A PD signals Autoclass by dropping its classification signature to '0' after T_{ACS} within the first class event.

PDs that perform normal classification maintain their initial class signature throughout T_{LCF}.

88-105ms
T_{LCE}

PSE

PD

④

⓪

T_{ACS}
75.5-87.5ms **+** 0.5-29.5ms

---

[1] I would **strongly** suggest them to make a new Clause from Day 1

PHILIPS

Inconsistent behavior

What happens if a PD changes its class signature to something **other** than '0' during T_{ACS} ?

A PSE with autoclass_enabled = FALSE will not measure the last part of the first class event and power up the PD as if it had maintained its class signature.

A PSE with autoclass_enabled = TRUE will consider this an invalid classification result and return to the IDLE state.

This difference in behavior makes no sense.

PHILIPS

Proposed change

All Type 3 and Type 4 PSEs will, regardless of autoclass_enabled, power up a PD that changes its class signature to anything other than '0' as if it has not changed its class signature.

class signature during			
T_{Class_LCE}	T_{Class_ACS}	Type 3/4 result	Type 5 result
1	0	Class 1 + Autoclass	same
1	1	Class 1	same
1	2,3,4	Class 1	future
2	0	Class 2 + Autoclass	same
2	2	Class 2	same
2	1,3,4	Class 2	future
3	0	Class 3 + Autoclass	same
3	3	Class 3	same
3	1,2,4	Class 3	future
4	0	Class 4–8 + Autoclass	same
4	4	Class 4–8 + Autoclass	same
4	1,2,3	Class 4–8	future

PHILIPS