```
1
2   // L3G4200D
3
4   #ifndef _RADIORECIEVER_h
5   #define _RADIORECIEVER_h
6
7   #if defined(ARDUINO) && ARDUINO >= 100
8   #include "wprogram.h"
9   #else
10  #include "WProgram.h"
11  #endif
12
13  #include "avr/io.h"
14  #include "avr/interrupt.h"
15
16  #define RADIO_RX    23
17
18  //channel definitions
19  #define CHANNELS    9
20  #define THROTTLE    1
21  #define AIL_ROLL    2
22  #define ELEV_PITCH  3
23  #define RUD_YAW     4
24  #define GEAR        5
25  #define AUX4_LEFT   6
26  #define AUX5_RIGHT  7
27  #define UNKNOWN     8
28  #define TIME        0
29
30  #define TIME_MINIMUM 5800
31
32  //pulsewidth timing constants
33  #define CENTER_PW   1512
34  #define DELTA_PW    4.78f
35
36  //smoothing rate for percentages
37  #define RADIO_DELTA_SPEED 0.01f
38
39  void init_RadioReciever();
40  float GetChannel(int channel);
41  void update_RadioReciever();
42
43  void wait_for_pulse();
44  void interrupt_method();
45  float get_percent(int pulse);
46
47  #endif
```