TOCON_fast

TOCONs with increased bandwidth

sglux
The UV Experts

INTRODUCTION

The sglux TOCONs are designed to monitor ultraviolet radiation from sources that slowly change in intensity over time. Accordingly the rise time (10-90%) of the standard TOCONs is relatively large. It ranges from 200ms for the most sensitive TOCONs down to 7ms for the least sensitive TOCONs. Some applications require a faster sensor response. For these applications every TOCON can be customized as “TOCON_fast”. The TOCON_fast’s rise times range from 33ms for the most sensitive TOCONs down to 0.22ms for the least sensitive TOCONs. The below table shows the time constant, rise time and bandwidth of the sglux TOCON_fast

TABLE OF TIME CONSTANT, RISE TIME AND BANDWIDTH

TOCON Type	typical. time constant (Tau) in ms	risetime in ms (Tau*2,2)	Bandwidth in Hz
TOCON_ABC1_fast	15,00	33	5
TOCON_ABC2_fast	2,25	4,95	32
TOCON_ABC3_fast	22,50	49,5	3
TOCON_ABC4_fast	3,00	6,6	24
TOCON_ABC5_fast	0,30	0,66	241
TOCON_ABC6_fast	0,10	0,22	723
TOCON_ABC7_fast	0,38	0,825	193
TOCON_ABC8_fast	0,10	0,22	723
TOCON_ABC9_fast	0,10	0,22	723
TOCON_ABC10_fast	0,10	0,22	723
TOCON_A4_fast	0,10	0,22	723
TOCON_A5_fast	0,19	0,407	391
TOCON_A6_fast	0,10	0,22	723
TOCON_A7_fast	0,15	0,33	482
TOCON_A8_fast	0,10	0,22	723
TOCON_A9_fast	0,10	0,22	723
TOCON_B4_fast	7,50	16,5	10
TOCON_B5_fast	0,75	1,65	96
TOCON_B6_fast	0,10	0,22	723
TOCON_C1_fast	37,50	82,5	2
TOCON_C2_fast	4,50	9,9	16
TOCON_C3_fast	0,38	0,825	193
TOCON_C4_fast	6,00	13,2	12
TOCON_C5_fast	0,45	0,99	161
TOCON_C6_fast	0,10	0,22	723
TOCON_C7_fast	0,38	0,825	193
TOCON_C8_fast	0,10	0,22	723
TOCON_C9_fast	0,10	0,22	723
TOCON_E1_fast	6,00	13,2	12
TOCON_E_OEM_fast	2,25	4,95	32
TOCON_E2_fast	1,20	2,64	60
TOCON_BLUE4_fast	4,50	9,9	16
TOCON_ BLUE5_fast	0,45	0,99	161
TOCON_ BLUE6_fast	0,10	0,22	723
TOCON_ BLUE7_fast	0,10	0,22	723
TOCON_ BLUE8_fast	0,10	0,22	723
TOCON_ BLUE9_fast	0,10	0,22	723
TOCON_GAP4_fast	4,50	9,9	16
TOCON_ GAP5_fast	0,45	0,99	161
TOCON_ GAP6_fast	0,10	0,22	723
TOCON_ GAP7_fast	0,10	0,22	723
TOCON_ GAP8_fast	0,10	0,22	723
TOCON_ GAP9_fast	0,10	0,22	723