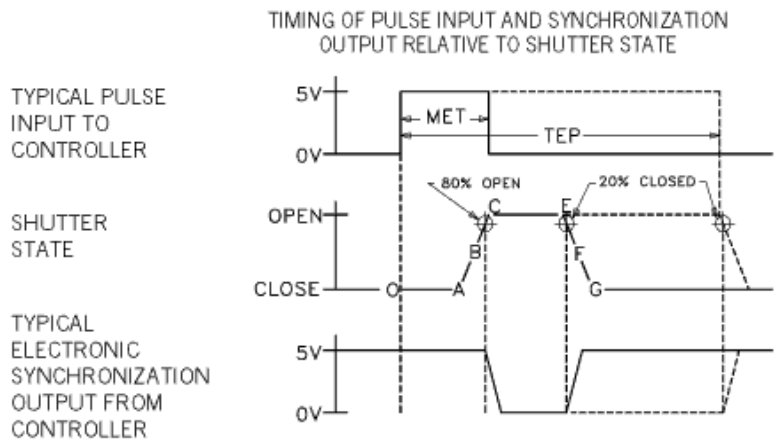


# Timing Comparison Chart

The Timing Chart compares the timing specifications of all standard UNIBLITZ shutters. These typical timing ratings are compiled using UNIBLITZ standard driver equipment that is recommended for the series indicated. CS, VS, LS, and XRS series are compiled with the VCM-D1 type driver, the NS series timing is compiled with the VDM1000 type driver and the DSS and TS series devices are compiled with the ED12DSS type driver with the exception of the TS2S which is compiled with the VDM1000 type driver. The timing indicated for comparison are shutters equipped with standard black TEFLON® ("T") coated or polished stainless steel ("S") shutter blades. Typically add 10% (for LS series) and 30% (for VS) to each of the timing specifications when utilizing AISiO ("Z") or AlMgF2 ("ZM") coated blades. (Note timing is the same for all blade finishes and coatings for VS35 and all CS type shutters.) XRS shutter timing is compiled with .010 inch thick PtIr blades

<b>O-A</b>	<b>DELAY TIME ON OPENING AFTER CURRENT IS APPLIED</b>
<b>A-C</b>	<b>TRANSFER TIME ON OPENING</b>
<b>O-C</b>	<b>TOTAL OPENING TIME</b>
<b>C-E</b>	<b>MINIMUM DWELL TIME WITH MINIMUM INPUT PULSE</b>
<b>D-E</b>	<b>DELAY TIME ON CLOSING AFTER CURRENT IS APPLIED</b>
<b>B-F</b>	<b>MINIMUM EQUIVALENT EXPOSURE TIME</b>
<b>E-G</b>	<b>TRANSFER TIME ON CLOSING</b>
<b>A-G</b>	<b>TOTAL WINDOW TIME</b>
<b>MET</b>	<b>MINIMUM EXPOSURE TIME</b>
<b>TEP</b>	<b>TYPICAL EXPOSURE PULSE</b>



*Electronic Synchronization data only applies to devices that are compatible with this option.*

SERIES	O-A	A-C	O-C	C-E	D-E	B-F	E-G	A-G	MET	TEP
<b>CS25</b>	3.0	9.0	12.0	6.0	N/A	17.5	14.0	29.0	15.0	>15.0
<b>CS35</b>	4.0	13.0	17.0	10.0	N/A	17.5	30.0	53.0	20.0	>20.0
<b>CS45</b>	6.0	14.0	20.0	12.0	N/A	31.0	24.0	50.0	25.0	>25.0
<b>CS65</b>	9.0	45.0	54.0	75.0	N/A	22.0	55.0	119.0	60.0	>65.0
<b>CS90HS</b>	18.0	48.0	66.0	11.0	N/A	62.0	57.0	112.0	70.0	>70.0
<b>DSS10</b>	3.6	5.0	8.6	5.0	3.6	10.0	5.0	15.0	15.0	>15.0
<b>DSS20</b>	7.8	12.5	20.3	14.7	10.0	27.0	12.1	39.3	25.0	>25.0

**All timing data is in msec.**

*Continued to page 2*

SERIES	O-A	A-C	O-C	C-E	D-E	B-F	E-G	A-G	MET	TEP
<b>DSS25</b>	13.2	12.6	25.8	23.2	14.0	36.6	14.0	50.8	35.0	>35.0
<b>LS2</b>	0.7	0.3	1.0	0.7	N/A	1.1	0.5	1.5	1.0	>1.7
<b>LS3</b>	1.0	0.5	1.5	0.8	N/A	1.5	0.6	1.9	2.0	>2.3
<b>LS6</b>	1.0	0.7	1.7	0.8	N/A	1.5	0.8	2.3	2.0	>2.5
<b>NS15B</b>	2.5	3.0	5.5	3.0	2.5	9.0	3.0	9.0	7.0	N/A
<b>NS25B</b>	3.0	5.0	8.0	6.0	3.0	11.0	5.0	16.0	13.0	>13.0
<b>NS25S</b>	3.0	5.0	8.0	6.0	3.0	11.0	5.0	16.0	13.0	>13.0
<b>NS35B</b>	6.5	12.0	18.5	7.0	4.0	19.0	12.0	31.0	20.0	>20.0
<b>NS45B</b>	7.0	12.0	19.0	12.5	6.0	24.5	12.0	43.5	36.0	>36.0
<b>NS65B</b>	10.1	33.0	43.0	15.0	12.0	47.0	31.0	79.0	40.0	>40.0
<b>TS2B</b>	0.7	0.68	1.38	1.00	0.75	1.68	0.56	2.24	2.00	>3.0
<b>TS6B</b>	1.4	1.7	3.1	4.3	1.4	6.0	1.7	7.7	6.0	>6.0
<b>VS14</b>	2.0	1.5	3.5	2.0	N/A	4.5	3.0	6.5	4.0	>6.5
<b>VS25</b>	3.0	3.0	6.0	2.0	N/A	6.0	5.0	10.0	6.0	>8.0
<b>VS35</b>	5.0	13.0	18.0	5.0	N/A	20.0	12.0	30.0	20.0	>23.0
<b>XRS14</b>	5.0	20.0	25.0	20.0	N/A	5.0	10.0	35.0	25.0	>25.0
<b>XRS25</b>	6.0	10.0	16.0	17.5	N/A	5.0	15.0	30.0	20.0	>30.0
<b>XRS6</b>	1.2	3.2	4.4	5.6	N/A	2.0	3.8	9.0	5.0	>6.4

**All timing data is in msec.**

803 Linden Avenue • Rochester, NY 14625 • 585-385-5930 tel • 800-828-6972 toll-free • 585-385-6004 fax • [www.uniblitz.com](http://www.uniblitz.com)

Due to our ongoing product development program, Vincent Associates reserves the right to discontinue or change specifications or designs at any time, without incurring any obligations. Teflon is a registered trademark of E.I. DuPont. Drawings shown for illustrative purposes only. Updated 04/13. *Specification sheet Ver. 4.1*