

## Safety Summary

### Initial Safety Information for Laser Source

The specifications for the modules are as follows:

	<b>E4311A</b>	<b>E4312A</b>	<b>E4313A</b>
<b>Laser Type</b>	FP-Laser InGaAsP	FP-Laser InGaAsP	FP-Laser InGaAsP
<b>Laser Class</b>			
According to IEC 825 (Europe)	3A	3A	3A
According to 21 CFR 1040.10 (Canada, Japan, USA)	1	1	1
<b>Output Power (Pulse Max)</b>	7.5 mW	7.5 mW	7.5 mW
<b>Pulse Duration (Max)</b>	10 $\mu$ s	10 $\mu$ s	10 $\mu$ s
<b>Pulse Energy (Max)</b>	75 nWs	75 nWs	75 nWs
<b>Output Power (CW)</b>	0.5 mW	0.5 mW	0.5 mW
<b>Beam Waist Diameter</b>	9 $\mu$ m	9 $\mu$ m	9 $\mu$ m
<b>Numerical Aperture</b>	0.1	0.1	0.1
<b>Wavelength</b>	1310 $\pm$ 15nm	1550 $\pm$ 15nm	1310/1550 $\pm$ 15nm
	<b>E4314A</b>	<b>E4315A</b>	<b>E4316A</b>
<b>Laser Type</b>	FP-Laser InGaAsP	FP-Laser InGaAsP	FP-Laser InGaAsP
<b>Laser Class</b>			
According to IEC 825 (Europe)	3A	3A	3A
According to 21 CFR 1040.10 (Canada, Japan, USA)	1	1	1
<b>Output Power (Pulse Max)</b>	25 mW	25 mW	25 mW
<b>Pulse Duration (Max)</b>	10 $\mu$ s	10 $\mu$ s	10 $\mu$ s
<b>Pulse Energy (Max)</b>	250 nWs	250 nWs	250 nWs
<b>Output Power (CW)</b>	1 mW	1 mW	1 mW
<b>Beam Waist Diameter</b>	9 $\mu$ m	9 $\mu$ m	9 $\mu$ m
<b>Numerical Aperture</b>	0.1	0.1	0.1
<b>Wavelength</b>	1310 $\pm$ 15nm	1550 $\pm$ 15nm	1310/1550 $\pm$ 15nm

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	<b>E4317A</b>	<b>E4318A</b>	<b>E4319A</b>
<b>Laser Type</b>	FP-Laser InGaAsP	FP-Laser InGaAsP	FP-Laser InGaAsP
<b>Laser Class</b>			
According to IEC 825 (Europe)	3A	3A	3A
According to 21 CFR 1040.10 (Canada, Japan, USA)	1	1	1
<b>Output Power (Pulse Max)</b>	50 mW	50 mW	50 mW
<b>Pulse Duration (Max)</b>	20 $\mu$ s	20 $\mu$ s	20 $\mu$ s
<b>Pulse Energy (Max)</b>	1 mWs	1 mWs	1 mWs
<b>Output Power (CW)</b>	1 mW	1 mW	1 mW
<b>Beam Waist Diameter</b>	9 $\mu$ m	9 $\mu$ m	9 $\mu$ m
<b>Numerical Aperture</b>	0.1	0.1	0.1
<b>Wavelength</b>	1310 $\pm$ 15nm	1550 $\pm$ 15nm	1310/1550 $\pm$ 15nm
	<b>E4321A</b>	<b>E4324A</b>	
<b>Laser Type</b>	FP-Laser InGaAsP	FP-Laser InGaAsP	
<b>Laser Class</b>			
According to IEC 825 (Europe)	3A	3A	
According to 21 CFR 1040.10 (Canada, Japan, USA)	1	1	
<b>Output Power (Pulse Max)</b>	50 mW	60 mW	
<b>Pulse Duration (Max)</b>	20 $\mu$ s	20 $\mu$ s	
<b>Pulse Energy (Max)</b>	1 mWs	1 mWs	
<b>Output Power (CW)</b>	1 mW	1 mW	
<b>Beam Waist Diameter</b>	9 $\mu$ m	9 $\mu$ m	
<b>Numerical Aperture</b>	0.1	0.1	
<b>Wavelength</b>	1625 $\pm$ 20nm	1310/1550 $\pm$ 15nm	