

Safety Summary

Initial Safety Information for Laser Source

The specifications for the modules are as follows:

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

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

Safety Summary

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

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