

DIN EN ISO 11145:2019-06 (E)

Optics and photonics - Lasers and laser-related equipment - Vocabulary and symbols (ISO 11145:2018)

| Contents | Page |
|--|-------------|
| European foreword | 3 |
| Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered | 4 |
| Foreword | 5 |
| 1 Scope | 6 |
| 2 Normative references | 6 |
| 3 Terms and definitions | 6 |
| 3.1 Beam position..... | 7 |
| 3.2 Beam axis..... | 7 |
| 3.3 Beam diameter..... | 8 |
| 3.4 Beam radius..... | 8 |
| 3.5 Beam width..... | 9 |
| 3.6 Beam cross-sectional area..... | 9 |
| 3.7 Beam waist..... | 10 |
| 3.8 Divergence..... | 12 |
| 3.9 Rayleigh length..... | 12 |
| 3.10 Beam parameter product..... | 13 |
| 3.11 Coherence..... | 13 |
| 3.12 Polarization..... | 14 |
| 3.13 Power and Energy..... | 15 |
| 3.14 Pulse duration and repetition rate..... | 16 |
| 3.15 Optical resonator..... | 17 |
| 3.16 Mode..... | 17 |
| 3.17 Spectral bandwidth..... | 17 |
| 3.18 Relative intensity noise..... | 18 |
| 3.19 Laser..... | 18 |
| 3.20 Efficiency..... | 20 |
| 4 Symbols and units of measurement | 20 |
| Annex A (informative) Explanation of the difference in terminology between IEC 60825-1 and ISO 11145 | 22 |
| Annex B (informative) List of symbols | 23 |
| Bibliography | 24 |
| Alphabetical index | 25 |