DIN EN ISO 12005:2022-11 (E)

Lasers and laser-related equipment - Test methods for laser beam parameters - Polarization (ISO 12005:2022)

Contents

Page

European foreword 3

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Termsanddefinitions 6

4 Test method for state of polarization 8
4.1 Principle of measurement 8
4.2 Equipment arrangement 9
4.2.1 General 9
4.2.2 Special arrangement for the testing of beams with large divergence angles 9
4.2.3 Special arrangement for the testing of beams with large apertures 10
4.3 Components 10
4.3.1 Radiation detector 10
4.3.2 Linear polarizer 11
4.3.3 Quarter-wave plate 11
4.3.4 Optical attenuator 11
4.4 Test procedure 11
4.4.1 General 11
4.4.2 Measurement 1 11
4.4.3 Measurement 2 12
4.5 Analysis of the results 12

5 Test report 14

Annex A (informative) Complete description of the polarization status of a monochromatic laser beam 17

Bibliography 20