DIN EN 13848-3:2022-02 (E)

Railway applications - Track - Track geometry quality - Part 3: Measuring systems - Track construction and maintenance machines

Contents

Page

European foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Symbols and abbreviations 6

5 Track geometry measuring system fitted on OTMMs 6
5.1 General description 6
5.2 Environmental conditions 8
5.3 Track features input 9
5.4 Localization device 9
5.5 Measuring devices 10
5.6 Resolution 10
5.7 Signal processing 11
5.8 Data processing and analysis 11
5.9 Data presentation and storage 12

6 Testing of track geometry measuring and recording system 13
6.1 Introduction 13
6.2 Calibration 13
6.3 Validation 13
6.4 Adjustment 19

Annex A (normative) Parameters measured by track construction and maintenance machine 20

Annex B (informative) Principles of measurement 23

Annex C (normative) Description of field tests: values to be respected 26

Annex D (informative) Track geometry measurement uncertainty 28

Bibliography 33