

Dynamic modules - Part 3-2: Performance specification  
templates - Optical channel monitor

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ICS 33.180.01, 33.180.99

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ICS 33.180.99; 33.180.01

English Version

Dynamic modules - Part 3-2: Performance specification  
templates - Optical channel monitor  
(IEC 62343-3-2:2016)

Dynamic modules - Part 3-2: Performance specification  
templates - Optical channel monitor  
(IEC 62343-3-2:2016)

Dynamische Module - Teil 3-2: Vorlagen für  
Leistungsspezifikationen - Optische Kanalüberwachung  
(IEC 62343-3-2:2016)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## European foreword

The text of document 86C/1324/CDV, future edition 1 of IEC 62343-3-2, prepared by SC 86C "Fibre optic systems and active devices" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62343-3-2:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-03-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-06-16

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## Endorsement notice

The text of the International Standard IEC 62343-3-2:2016 was approved by CENELEC as a European Standard without any modification.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61280-2-9	-	Fibre optic communication subsystem test procedures -- Part 2-9: Digital systems - Optical signal-to-noise ratio measurement for dense wavelength-division multiplexed systems	EN 61280-2-9	-
IEC 61300-3-21	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-21: Examinations and measurements - Switching time	EN 61300-3-21	-
IEC 61300-3-29	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 3-29: Examinations and measurements - Spectral transfer characteristics of DWDM devices	EN 61300-3-29	-
IEC 62074-1	-	Fibre optic interconnecting devices and passive components - Fibre optic WDM devices -- Part 1: Generic specification	EN 62074-1	-
IEC 62343	-	Dynamic modules - General and guidance	EN 62343	-

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## INTRODUCTION

An optical channel monitor (OCM) is a dynamic module that measures the optical characteristics, mainly power and frequency, of each channel present in a dense wavelength division multiplexing (DWDM) transmission line. The OCM is typically connected to an optical tap coupler which directs to the OCM anywhere between 1 % and 5 % of the optical signal in the fibre-optic transmission line. The data reported by the OCM are used in a reconfigurable optical add/drop multiplexer (ROADM) to dynamically equalize the power in the optical channels and to monitor the performance of the channels continuously over the lifetime of the system.

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