

Product discontinuation announcement

Incremental linear encoders

- × LMK-105x / LMK-10x
- × LMK-115x / LMK-11x
- × LMK-13x
- × LMK-31x / LMK 315x

Incremental angle encoders

- × WMK-1x5x / WMK-1xx
- × WMK-2x5x / WMK-2xx
- × WMK-3xx

product introduction of new generation

Incremental linear encoders

- LMK 1005 / LMK 2005
- LMK 1010 / LMK 2010
- LMK 2030
- LMK 3010

Incremental angle encoders

- WMK 1x05 / WMK 1x10
- WMK 2x05 / WMK 2x10
- WMK 2x30

Dear Sir or Madam,

all incremental length- and angular encoders, which are in the AMO product range since 2005, will be no longer available for sale after 30.09.2017.

The introduction of the new generation of encoders based on an advanced ASIC and the discontinuation of the ASIC which is in use since 2005 are the reason for this product discontinuation announcement.

Last order of max. 50% of the last annual consumption:	30.09.2017
Last delivery:	31.03.2018

Product introduction of the new generation of linear- and angle encoders

The new generation encoders are already available since the beginning of 2016.

All necessary information for the change to the new generation of encoders are shown below and in the mentioned customers information at the end of this document.

For further questions, please do not hesitate to contact your AMO contact person.

Advantages of the new generation of linear- and angle encoders

Below you'll find the main advantages and improvements of the new generation encoders.

1. Higher resolution

For 1Vpp as well as for TTL-Interfaces higher resolutions are available.

Grating period	Old generation		New generation	
	Interface	Resolution	Interface	Resolution
500 μm	1Vpp	20 μm	1Vpp	10 μm
	TTL	0,125 μm	TTL	0,05 μm
1000 μm	1Vpp	40 μm	1Vpp	20 μm
	TTL	0,25 μm	TTL	0,1 μm

2. Higher speed

Linear encoders

The electrical maximum speed for linear encoders has been doubled.

Angle encoders

Interface 1Vpp

Especially for encoders with divided output signals the maximum speed has been extended. The possible maximum speed is only limited by the maximum output frequency of 400kHz.

Interface TTL

For encoders with interpolation factors ≥ 5 the maximum speed is only limited by the output signal frequency of 5MHz.

Detailed information on this topic you can find in the product information for linear- and angle encoders.

3. Improved interpolation error

The implementation of an advanced automatic signal compensation leads to an improved interpolation error in both performance classes.

Performance class S (Standard)

The interpolation error is in the same range as at the old generation encoders. Due to the advanced automatic signal compensation the interpolation error remains constant over the complete range of mounting tolerances.

Performance class HA (High Accuracy)

An additional optimized signal adjustment process reduces the interpolation error compared to the performance class S.

Detailed information you can find in the product information for linear and angle encoders.

4. Extended supply voltage range

The extended supply voltage range results in significant longer signal cable length, important in applications where supply voltage is not controlled by the NC using sense wires.

Supply voltage range		
Interface	old generation	new generation
1Vpp	4,75 V ... 5.25 V	4.0 V ... 7,0 V
TTL	5 V +/- 0,25 V	5 V +/- 0,5 V

Compatibility for encoders of old generation versus new generation

Information about backward compatibility of the new generation encoders is available in the customer information documents listed below.

These customer information are available for download in the download area of the AMO homepage www.amo-gmbh.com.

Incremental linear encoders

LMK-105x / LMK-10x:	Customer information CI #6/2016 and CI #11/2016
LMK-115x / LMK-11x / LMK-13x:	Customer information CI #5/2016
LMKF-115x / LMKF-11x / LMKF-13x:	Customer information CI #7/2016
LMK-315x / LMK-31x:	Customer information CI #10/2016

Incremental angle encoders

WMK-105x / WMK-10x:	Customer information CI #3/2016 and CI #11/2016
WMK-205x / WMK-20x / WMK-30x:	Customer information CI #2/2016
WMKF-205x / WMKF-20x / WMKF-30x:	Customer information CI #4/2016
WMK-115x / WMK-11x:	Customer information CI #9/2016 and CI #11/2016
WMK-215x / WMK-21x / WMK-31x:	Customer information CI #8/2016