

## Product End-of-Life (EOL) Engineering Guide

Due to the recent announcement by component suppliers, Intel and TI, of the EOL for two key components, the production of certain revisions of Netzer Electric Encoder™ will be discontinued.

New encoder revision AKA Qcore encoder family at Netzer Precision Position Sensors™ is a digital encoder based on the high-performance 32-bit ARM® Cortex®-M4 RISC processor. It is based on new electrical design that ensure high reliability for the costumer. It enables Netzer Precision Position Sensors™ to provide its customers a modern encoder with higher resolution, improved accuracy in some of the models, faster update rate, lower latency, lower power supply, automatic calibration option and support higher RPM and additional features.

### **Affected items are below in 2 separate lists:**

1. Last buy date for the product families listed below will be **February 28th 2022**

Current Revision	New Revision	Remarks	Mechanical Interface Compatibility
DS-90-64 -3S / 3T-XXX	<a href="#">DS-90 Data Sheet</a>	External strain relief option is eliminated in new version	Fully compatible
DS-58-16 / 32-XXX	<a href="#">DS-58 Data Sheet</a>		Fully compatible
DS-25-16- <b>C/D</b> -XXX	<a href="#">DS-25 Data Sheet</a>	Elimination of external ADC module in the new model	Encoder itself, Fully compatible. External module elimination
DL-25-16-XXX	<a href="#">DL-25 Data Sheet</a>		Same diameter, 3.1 mm shorter

2. Last buy date for the product families listed below will be **February 28th 2023**

Current Revision	New Revision	Remarks	Mechanical Interface Compatibility
DS-70-64-XXX	DS-70-XXX- XX		Fully compatible
DS-130-64-XXX	DS-130-XXX- XX		TBD
DS-37-16- C/D/E/S	DS-37-16- C/D/E/S-QR	New revision is based on analog DS-37 encoder with new ADC External module.	Fully compatible
SC2SSI (ADC External Module)	SC2SSI-QR		
DF-150 /100/ 60-32-XXX	DF-150 /100/ 60-XXX		Fully compatible

General technical comparison between Old PN and New PN:

Parameter	Current Revision	New Revision	Remarks
External digital module	External module for DS-37, DS-25	New External module for DS-37, DS-25	
Typical current consumption	<180 mA	<90mA	
Maximal RPM per resolution	16 bit	NA	4,000
	17 bit	1,500	4,000
	18 bit	750	4,000
	19 bit	750	2400
Position update rate	25Khz	35Khz	For New version Position update rate of 375Khz is optional
Auto calibration	Not applicable	Available	Option for customer calibration by a push button or by communication – No need for Encoder Explorer™ software
Multi turn	Not applicable	Optional	
Improved resolution by SW		Up to 2 extra bits in resolution	