

## Value-added Technology: One Cable for all Applications

**Universal and very economical single-cable solutions from the very first meter - Added value for machine builders and users! Kollmorgen has expanded its range of single-cable motor-drive interconnection options with a new one-piece cable and connector assembly for Hiperface<sup>®</sup>-DSL. Already widely used for many conventional applications with the digital resolver (SFD), the well proven solution brings many benefits for users of Hiperface<sup>®</sup>-DSL encoder technology.**

- ▶ **Less hardware and time saving during installation and commissioning**
- ▶ **Just one type of cable for digital resolver (SFD) and digital Hiperface<sup>®</sup>-DSL encoders**
- ▶ **Reduced inventory costs through fewer components**
- ▶ **Electronic nameplate and motor temperature monitoring for all standard applications**

### Always an advantage:

#### Single-cable connection technology from Kollmorgen

- Less hardware
- Faster installation
- Fewer connections
- Greater reliability
- Smaller footprint
- Lighter weight
- Reduced inventory costs

### Excellent economy and reliability

- Cost advantage from the first meter of cable
- Plug-and-play with electronic nameplate feature
- High noise immunity due to digital system
- High investment security with straightforward retrofitting of the drive if your needs change
- A cable technology for all applications



The modular Kollmorgen single-cable connection system covers a full range of applications with just one cable type.

Robust resolver based encoder systems have been proven for several years in many drive systems. More than ten years ago Kollmorgen began pioneering the advance towards the digital resolver; bringing to market the innovation that combines the benefits of a robust analog technology with the advantages of digital encoder systems. Whether you choose the digital resolver (SFD) or high-resolution digital Hiperface<sup>®</sup>-DSL encoders, Kollmorgen single-cable technology will bring you significant cost advantages, better performance and higher data reliability - from the very first meter of cable.

# Single-cable Solutions in Practice

## Innovation from Kollmorgen: Single-cable covers all standard applications!

The advantages of the single-cable technology are obvious: As each axis includes both motor power and feedback in a single cable assembly, it removes the need for one cable and two connectors. Thus installation cost are reduced by half - and with the removal of two connections - sources of error also decline. The performance of high-resolution feedback systems is not required for some applications. Here, the Kollmorgen Smart Feedback Device (SFD), under the generic term „digital resolver (SFD)”, offers a digital feedback system that can be used for many common applications. These cost-effective feedback systems offer the further benefit of single-cable technology where high resolution encoder systems are not needed - economically from the first meter!

## Single-cable drive packages with scalable functionality and performance

	Servomotors with single-cable option					Servo Drive		
	Stall Torque [Nm]	Peak Torque [Nm]	Digital Resolver SFD	Hiperface® DSL	Holding Brake*	AKD Standard	AKD BASIC	AKD PDMM
AKM1	0,40	1,44	✓	✗	✗	✓	✓	✓
AKM2	1,42	4,82	✓	✓	✓	✓	✓	✓
AKM3	2,88	10,22	✓	✓	✓	✓	✓	✓
AKM4	6,00	20,40	✓	✓	✓	✓	✓	✓
AKM5	14,30	38,40	✓	✓	✓	✓	✓	✓
AKM6	24,50	65,20	✓	✓	✓	✓	✓	✓

\* In combination with digital resolver (SFD) from June 2013



Single-cable drive packages with AKM Washdown- and Washdown Food grade servo motors, for packaging applications in the food industry or use in rough environments, are available.



The powerful AKD PDMM servo drive with integrated motion control and an AKM servo motor. Just one example of the flexibility of Kollmorgen's modular single-cable system.