STXiMotion
Motion.Optimized.

ZED SERVO DRIVES

ZED ready-to-connect low voltage servo drive

ZED is a ready-to-connect low voltage servo drive with an output current of up to 23A. Its small footprint enables space-saving and near-motor mounting, fitting easily within the tight space constraints of applications such as electronics assembly, medical devices, and AGVs/AMRs.

Connectivity to PLC or modular safety controller

STO according to STO SIL3/PL e can be connected to a master motion PLC controller or to a modular safety controller. Two motor encoder signals A quad B RS422 can be daisy chained to the modular safety controller for Safe Motion monitoring, minimizing design complexity.

Master/slave communication

ZED to ZED real-time data exchange allows higher levels of axis synchronization and safer modes of operation.

Application examples

ZED drive is suited to stationary and mobile low voltage applications in the following industries:

- Intralogistics incl. AGV, AMR
- Medical Equipment
- Laboratory Automation
- Printing Machines
- Electronic Assembly & Semiconductor Equipment

Supporting multiple types of motor feedback

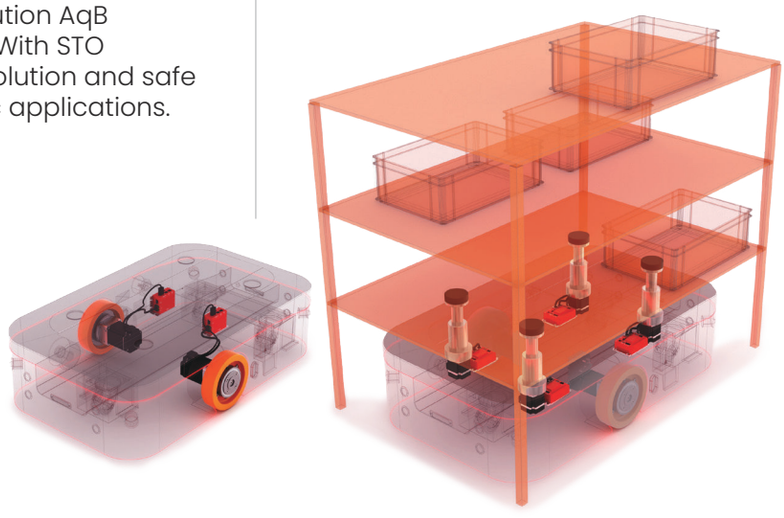
ZED drive supports a 12 bit and 4069 counts per revolution AqB incremental encoder, as well as Hall sensors and SSI. With STO functional safety the drive meets the full range of resolution and safe operation requirements from basic to highly dynamic applications.

Simple commissioning Motor Controller GUI with comprehensive parameterization options

Step-by-step guidance through the motor setup, application configuration and tuning process.

Key benefits

- High power density in a small footprint
- Ready-to-connect. No need for pin soldering or cable adaptors
- STO functional safety (SIL 3/PL e)
- Supports AqB encoder, Hall sensors and SSI-encoders
- Meets the full range of resolution and safe operation requirements
- Near-motor mounting for tight space constraints applications
- Simple commissioning GUI with comprehensive parameterization options
- CE and cUL certifications



	Model	Input bus (VDC)	Input logic (VDC)	Cont. current (Arms)	Cont. current with heat sink (Arms)	Peak current (Arms)
	SD01-015	24	24	12	14.4	40
	SD01-030	24	24	20	23	70
	SD01-025	48	24	18	20	63

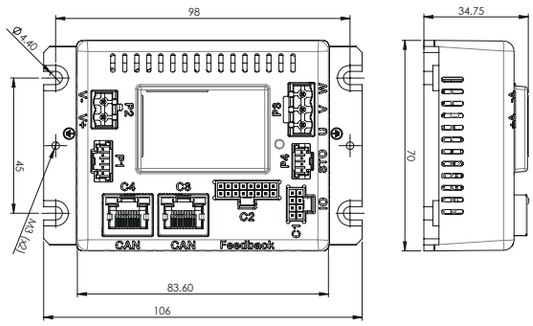
Communications:
CANopen
RS232

Motor Feedback:
Incremental Encoder
Hall Sensors
SSI Encoder

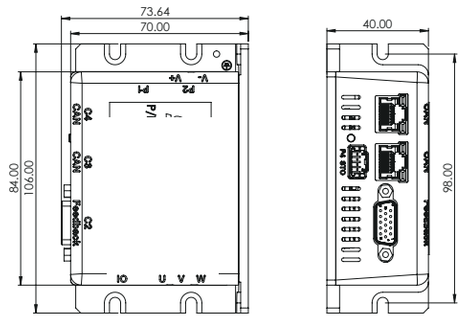
Digital I/Os:
4 x Input
2 x Output

Mechanical dimensions

SD01-015



SD01-025/030



Ordering Information

		SD01	-	030	1D	AB	CA	-	000
	SD01 Single-Axis Servo Drive								
	Rating – Cont. Current, Peak Current								
015	12/14.4(*) Arms, 40 Arms peak @ 24 VDC								
025	18/20(*) Arms, 63 Arms peak @ 48 VDC								
030	20/23(*) Arms, 70 Arms peak @ 24 VDC								
xxx	Custom								
	Power								
1D	Bus 20-60 VDC, Logic 24 VDC optional								
xx	Custom								
	Feedback								
AB	Incremental AB quadrature, index, Halls, 12 bit RS422								
AS	Incremental AB quadrature, Halls, 12 bit RS422 and SSI (upcoming)								
xx	Custom								
	Communication								
CA	CANopen								
xx	Custom								
	Options								
000	Standard								
00M	Mating connector kit (P1, P2, P3, P4, C1) 025 and 030 only								
xxx	Custom								

(*) with heat sink

ZED_EN_2023_V3