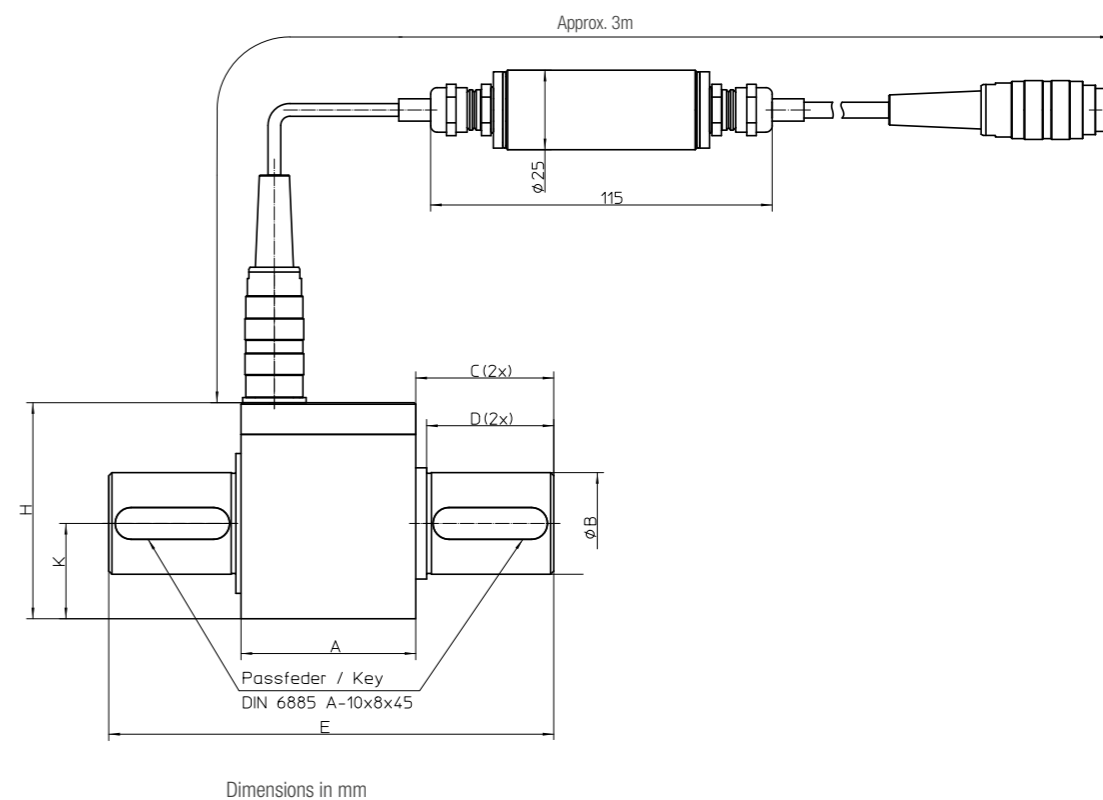


HySense® TQ 100

The **HySense® TQ 100** is a rotating torque sensor with integrated direction detection that was developed both for temporary and permanent use. It features high-quality, low-wear slip rings that make it possible to achieve precise and stable signal transmission. In addition, the feather keys on both sides and the housing design make direct mounting fast and easy.

Typical applications:

- | Measuring constant and varying torques
- | Friction torque in gearing and bearings
- | Measurements on rotating shafts
- | Production process monitoring and documentation
- | Testing and adjusting screw/nut drivers
- | A wide variety of adjustment devices in the industry



General characteristics

Sensor principle	Strain gauge, slip ring
Measured variable	Torque
Measuring range	1 ... 500 Nm
Output signal	12 ±8 mA ISDS
Measuring accuracy	0.1% of full scale
Electrical connector	M16 x 0.75, 6-pin
Ambient temperature	-10 ... 60 °C
IP degree of protection	IP50 (DIN EN 60529)

Measuring range Nm	Ø B mm	C mm	D mm	E mm	K mm	H mm	Weight g	Part No.
±1	8	19.7	18	85	12	39	200	3417-1102-33R1S
±5								3417-1502-33R1S
±50	15	21	20	90	21	54	400	3417-2502-33R1S
±100	18	24.1	22	95	21	54	500	3417-3102-33R1S
±200	32	41.6	40	140	30	68	1300	3417-3202-33R1S
±500								3417-3502-33R1S