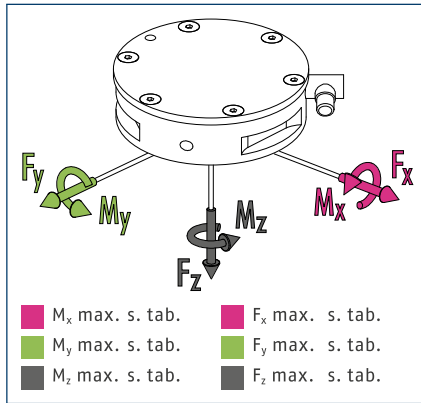


# FT Omega191

Measuring | Force / Torque Sensor

## Forces and Moments



① For load index see technical data table.

## Technical data FTN

Description		FTN-Omega-191	FTN-Omega-191	FTN-Omega-191
Calibration		SI-1800-350	SI-3600-700	SI-7200-1400
Evaluation via		Ethernet	Ethernet	Ethernet
Weight	[kg]	10.15	10.15	10.15
Measuring range $F_x, F_y$	[N]	±1800	±3600	±7200
Measuring range $F_z$	[N]	±4500	±9000	±18000
Measuring range $M_x, M_y$	[Nm]	±350	±700	±1400
Measuring range $M_z$	[Nm]	±350	±700	±1400
Overload $F_x, F_y$	[N]	±36000	±36000	±36000
Overload $F_z$	[N]	±11000	±11000	±11000
Overload $M_x, M_y$	[Nm]	±6800	±6800	±6800
Overload $M_z$	[Nm]	±6800	±6800	±6800
Resolution $F_x, F_y$	[N]	3/8	3/4	3/2
Resolution $F_z$	[N]	3/4	3/2	3/1
Resolution $M_x, M_y$	[Nm]	5/96	5/48	5/24
Resolution $M_z$	[Nm]	5/144	5/72	5/36

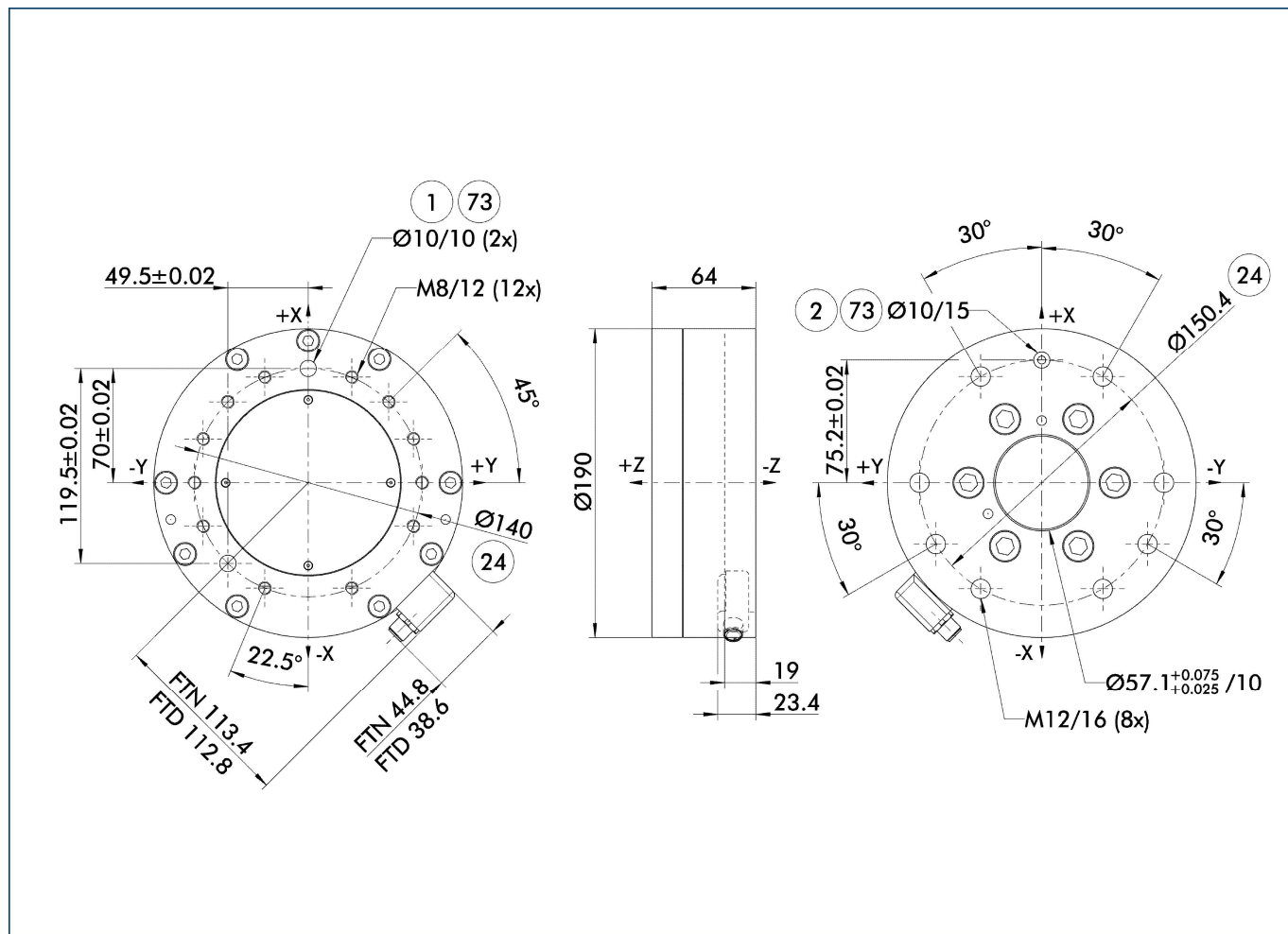
### Technical data deviating from FTD

Description		FTD-Omega-191	FTD-Omega-191	FTD-Omega-191
Evaluation via		DAQ	DAQ	DAQ
Resolution $F_x, F_y$	[N]	3/8	3/4	3/2
Resolution $F_z$	[N]	3/4	3/2	3/1
Resolution $M_x, M_y$	[Nm]	5/96	5/48	5/24
Resolution $M_z$	[Nm]	5/144	5/72	5/36

### Technical data deviating from FTS

Description		FTS-Omega-191	FTS-Omega-191	FTS-Omega-191
Evaluation via		Stand-Alone	Stand-Alone	Stand-Alone
Resolution $F_x, F_y$	[N]	3/4	3/2	3/1
Resolution $F_z$	[N]	3/2	3/1	6/1
Resolution $M_x, M_y$	[Nm]	5/48	5/24	5/12
Resolution $M_z$	[Nm]	5/72	5/36	5/18

Main view



The main view shows the unit in its basic version.

- ① Robot side connection
- ② Tool side connection
- ④ Bolt circle
- ⑦ Fit for a centering pin