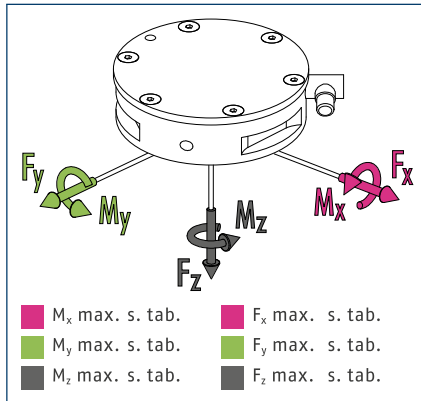


FT Omega250

Measuring | Force / Torque Sensor

Forces and Moments



① For load index see technical data table.

Technical data FTN

Description		FTN-Omega-250-IP60	FTN-Omega-250-IP60	FTN-Omega-250-IP60
Calibration		SI-4000-500	SI-8000-1000	SI-16000-2000
Evaluation via		Ethernet	Ethernet	Ethernet
Weight	[kg]	31.8	31.8	31.8
Measuring range F_x, F_y	[N]	±4000	±8000	±16000
Measuring range F_z	[N]	±8000	±16000	±32000
Measuring range M_x, M_y	[Nm]	±500	±1000	±2000
Measuring range M_z	[Nm]	±500	±1000	±2000
Overload F_x, F_y	[N]	±160000	±160000	±160000
Overload F_z	[N]	±330000	±330000	±330000
Overload M_x, M_y	[Nm]	±21000	±21000	±21000
Overload M_z	[Nm]	±25000	±25000	±25000
Resolution F_x, F_y	[N]	1/1	2/1	4/1
Resolution F_z	[N]	2/1	4/1	8/1
Resolution M_x, M_y	[Nm]	1/8	1/4	1/2
Resolution M_z	[Nm]	1/8	1/4	1/2

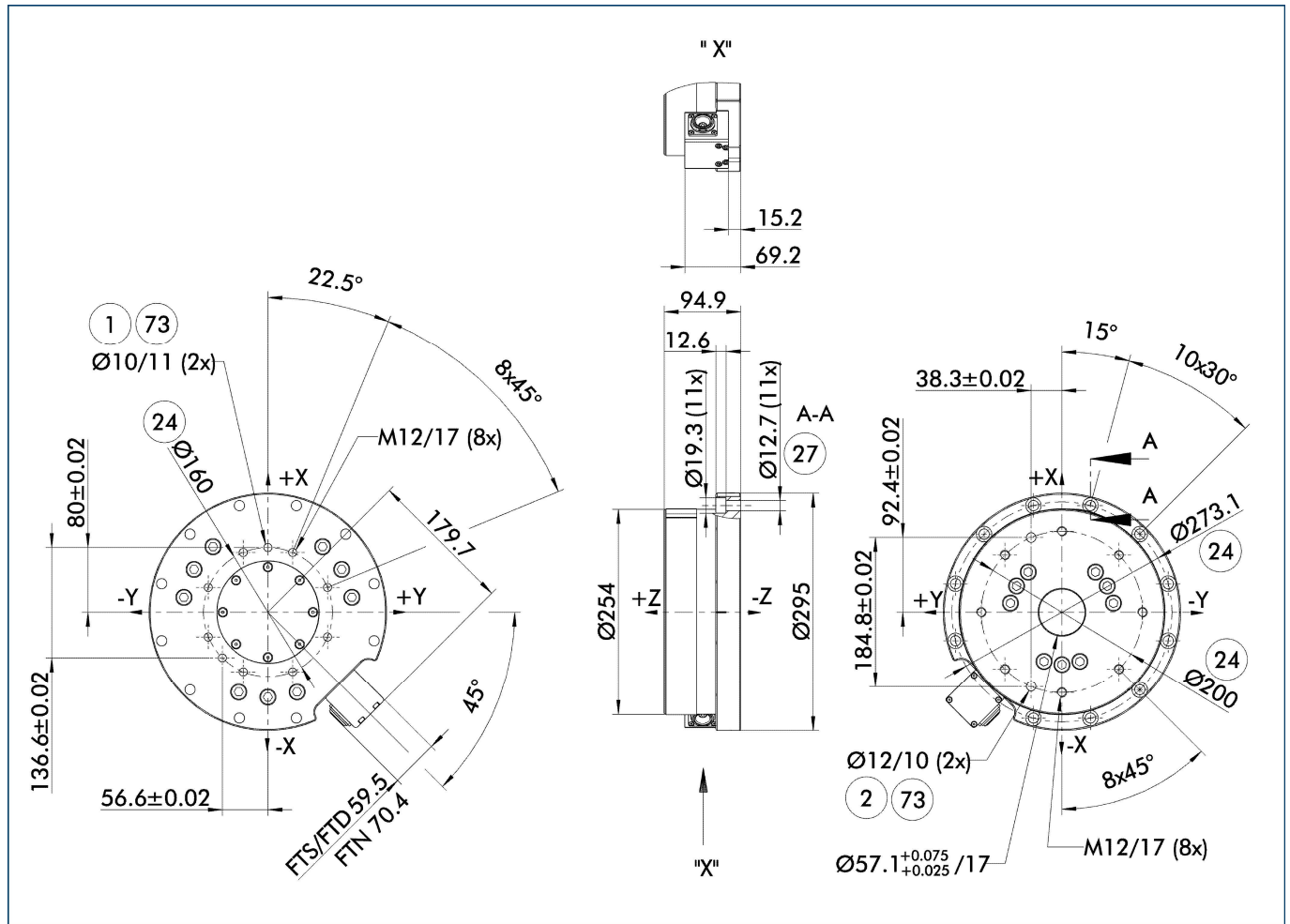
Technical data deviating from FTD

Description		FTD-Omega-250-IP60	FTD-Omega-250-IP60	FTD-Omega-250-IP60
Evaluation via		DAQ	DAQ	DAQ
Resolution F_x, F_y	[N]	1/1	2/1	4/1
Resolution F_z	[N]	2/1	4/1	8/1
Resolution M_x, M_y	[Nm]	1/8	1/4	1/2
Resolution M_z	[Nm]	1/8	1/4	1/2

Technical data deviating from FTS

Description		FTS-Omega-250-IP60	FTS-Omega-250-IP60	FTS-Omega-250-IP60
Evaluation via		Stand-Alone	Stand-Alone	Stand-Alone
Resolution F_x, F_y	[N]	2/1	4/1	8/1
Resolution F_z	[N]	4/1	8/1	16/1
Resolution M_x, M_y	[Nm]	1/4	1/2	1/1
Resolution M_z	[Nm]	1/4	1/2	1/1

Main view IP60



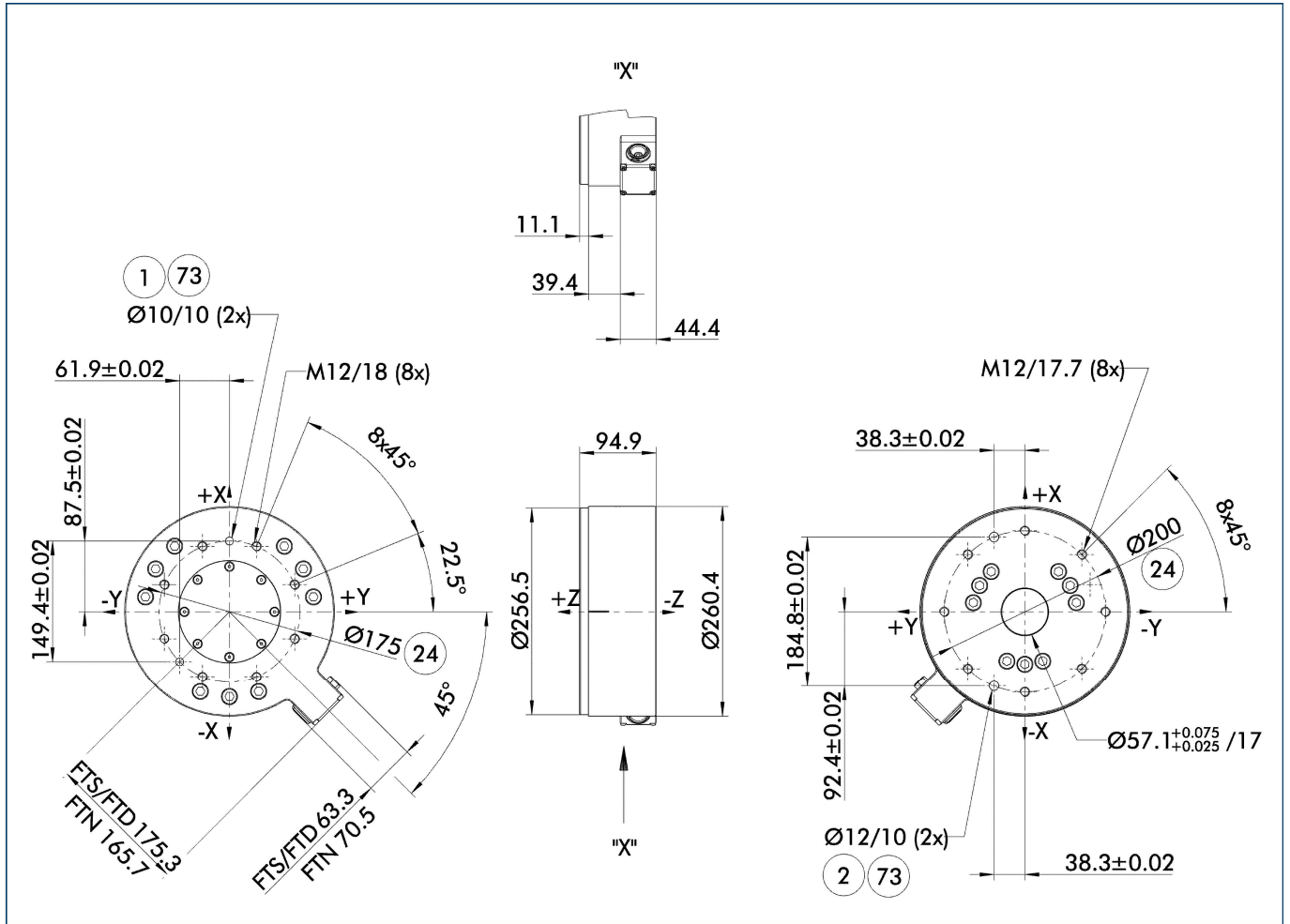
The main view shows the product with IP-protection.

- | | |
|-------------------------|--|
| ① Robot side connection | ②⑦ Through holes for screw connections |
| ② Tool side connection | ⑦③ Fit for a centering pin |
| ②④ Bolt circle | |

FT Omega250

Measuring | Force / Torque Sensor

IP65 / IP68 main view



The main view shows the product with IP-protection.

- ① Robot side connection
- ② Tool side connection
- ②④ Bolt circle
- ⑦③ Fit for a centering pin