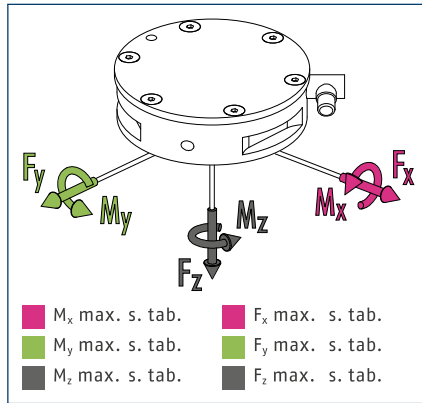


# FT Mini40

Measuring | Force / Torque Sensor

## Forces and Moments

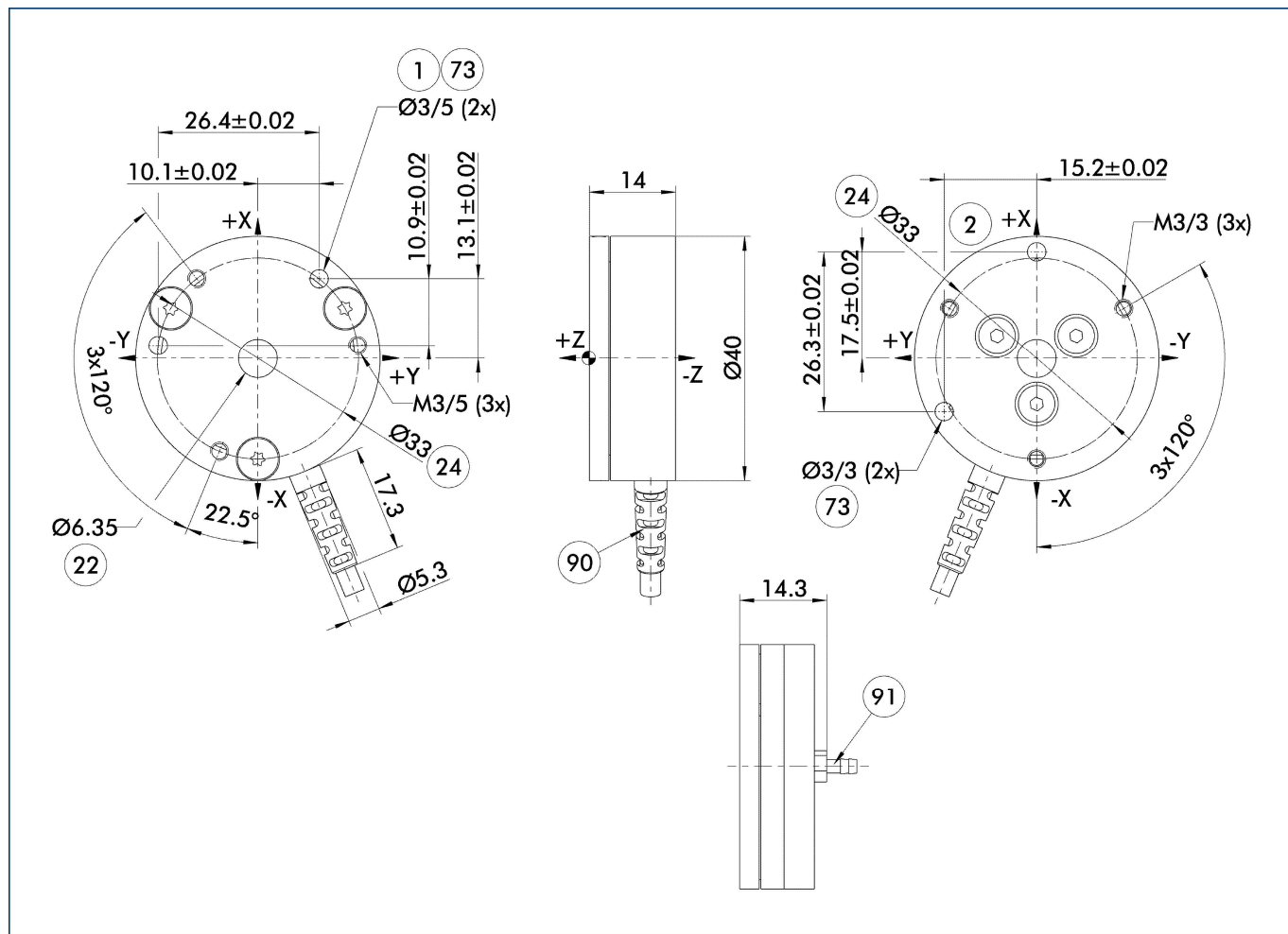


① For load index see technical data table.

## Technical data FTN

Description		FTN-Mini-40	FTN-Mini-40	FTN-Mini-40
Calibration		SI-20-1	SI-40-2	SI-80-4
Evaluation via		Ethernet	Ethernet	Ethernet
Weight	[kg]	0.049	0.049	0.049
Measuring range $F_x, F_y$	[N]	±20	±40	±80
Measuring range $F_z$	[N]	±60	±120	±240
Measuring range $M_x, M_y$	[Nm]	±1	±2	±4
Measuring range $M_z$	[Nm]	±1	±2	±4
Overload $F_x, F_y$	[N]	±810	±810	±810
Overload $F_z$	[N]	±2400	±2400	±2400
Overload $M_x, M_y$	[Nm]	±19	±19	±19
Overload $M_z$	[Nm]	±20	±20	±20
Resonant Frequency $F_x, F_y, M_z$	[Hz]	3200	3200	3200
Resonant Frequency $F_z, M_x, M_y$	[Hz]	4900	4900	4900
Resolution $F_x, F_y$	[N]	1/200	1/100	1/50
Resolution $F_z$	[N]	1/100	1/50	1/25
Resolution $M_x, M_y$	[Nm]	1/8000	1/4000	1/2000
Resolution $M_z$	[Nm]	1/8000	1/4000	1/2000
<b>Technical data deviating from FTD</b>				
Description		FTD-Mini-40	FTD-Mini-40	FTD-Mini-40
Evaluation via		DAQ	DAQ	DAQ
Resolution $F_x, F_y$	[N]	1/200	1/100	1/50
Resolution $F_z$	[N]	1/100	1/50	1/25
Resolution $M_x, M_y$	[Nm]	1/8000	1/4000	1/2000
Resolution $M_z$	[Nm]	1/8000	1/4000	1/2000
<b>Technical data deviating from FTS</b>				
Description		FTS-Mini-40	FTS-Mini-40	FTS-Mini-40
Evaluation via		Stand-Alone	Stand-Alone	Stand-Alone
Resolution $F_x, F_y$	[N]	1/100	1/50	1/25
Resolution $F_z$	[N]	1/50	1/25	2/25
Resolution $M_x, M_y$	[Nm]	1/4000	1/2000	1/1000
Resolution $M_z$	[Nm]	1/4000	1/2000	1/1000

Main view



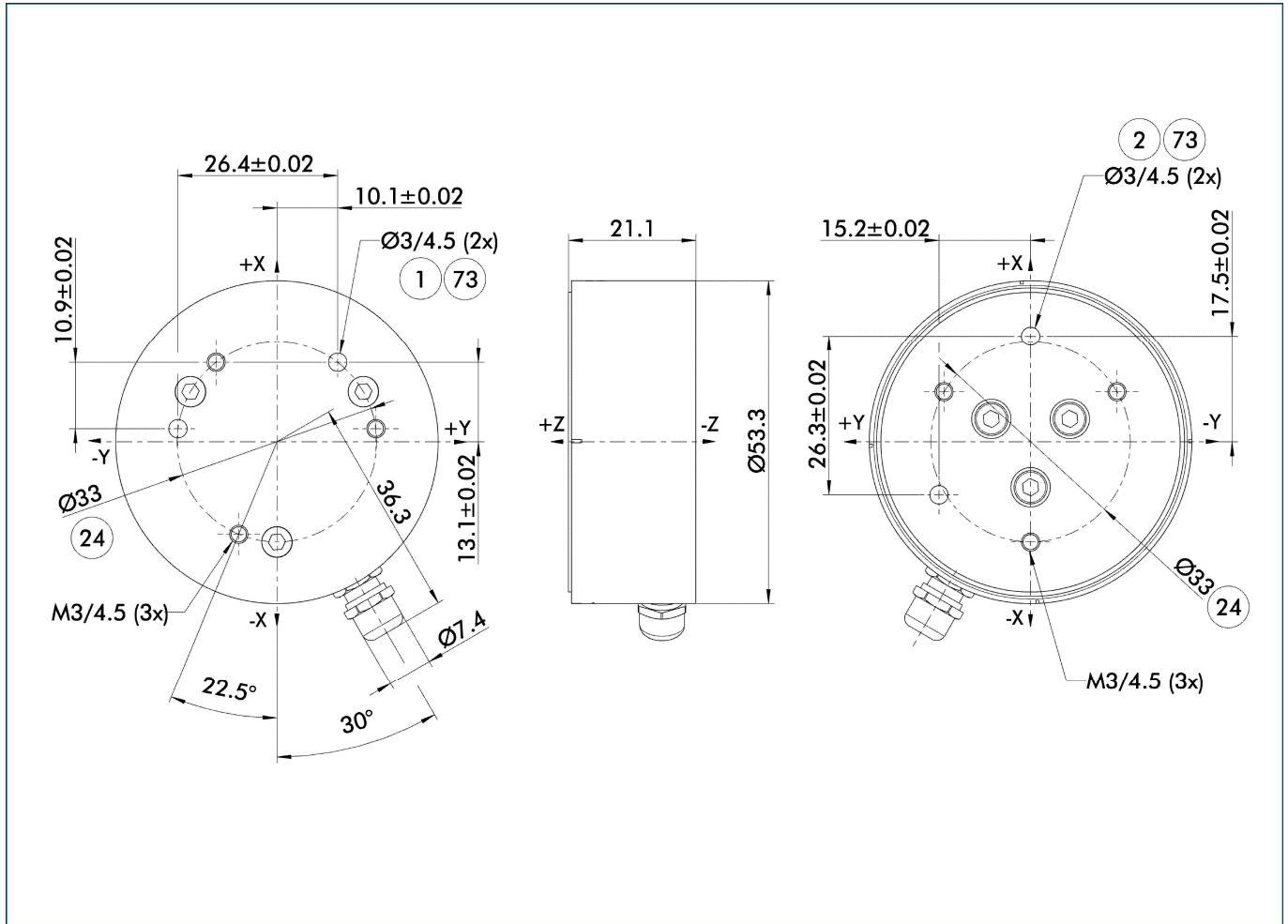
The main view shows the unit in its basic version.

- |                         |   |
|-------------------------|---|
| ① Robot side connection | ⑦③ Fit for a centering pin                |
| ② Tool side connection  | ⑨① Radial cable outlet with strain relief |
| ②② Center bore          | ⑨① Axial cable outlet                     |
| ②④ Bolt circle          |   |

# FT Mini40

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
- ④ Bolt circle
- ⑦ Fit for a centering pin