Product datasheet

Specifications

Scara robot, Lexium Scara, 500mm arm, 300mm

LXMRSP0650300

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

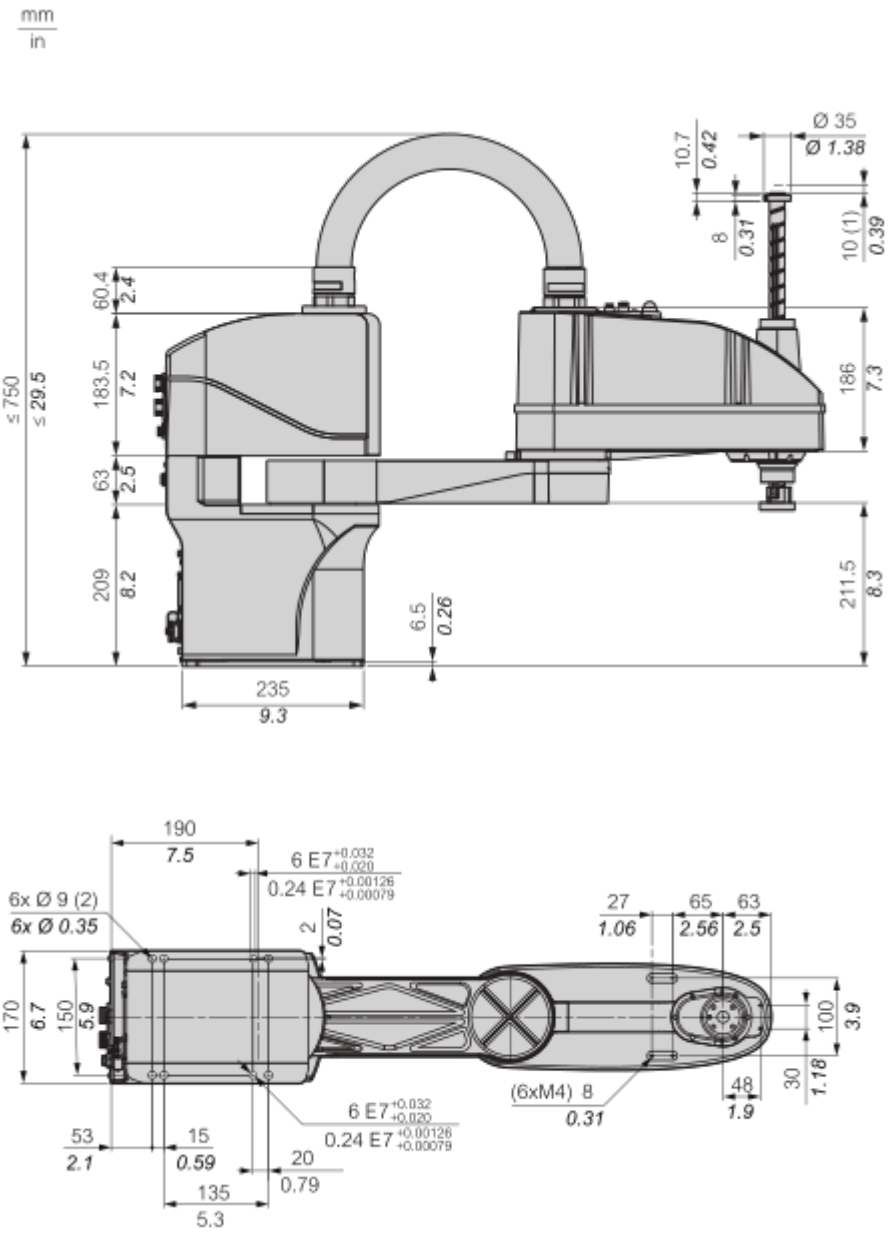
Use Longer

Lifetime extension

Repair	No

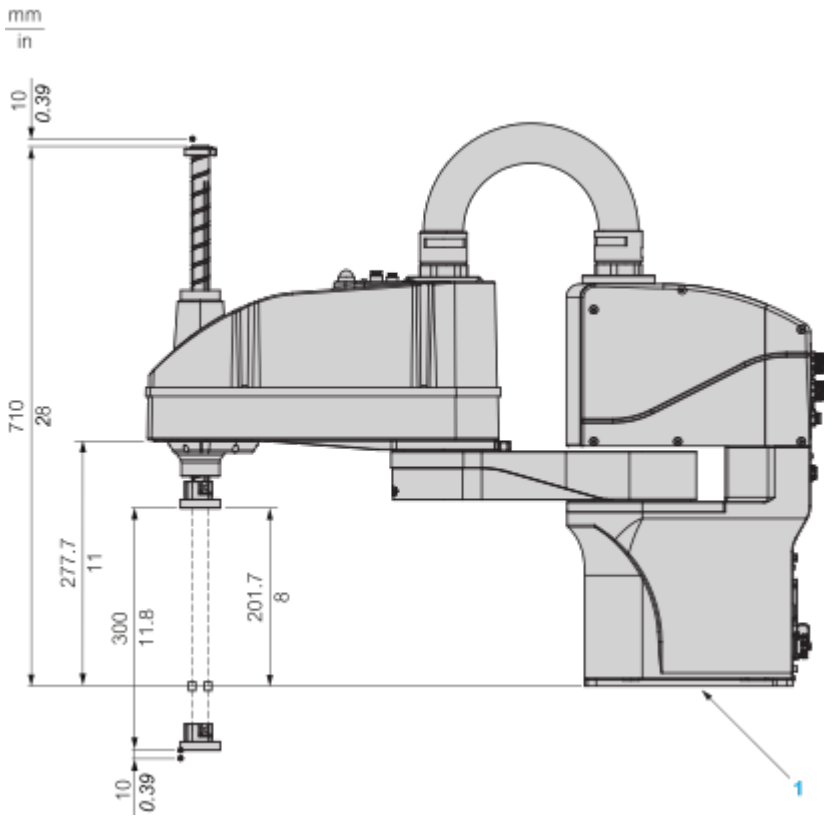
Dimensions Drawings

Dimensional Drawing



(1) : Screw reaches hard limit position**(2)** : Mounting holes

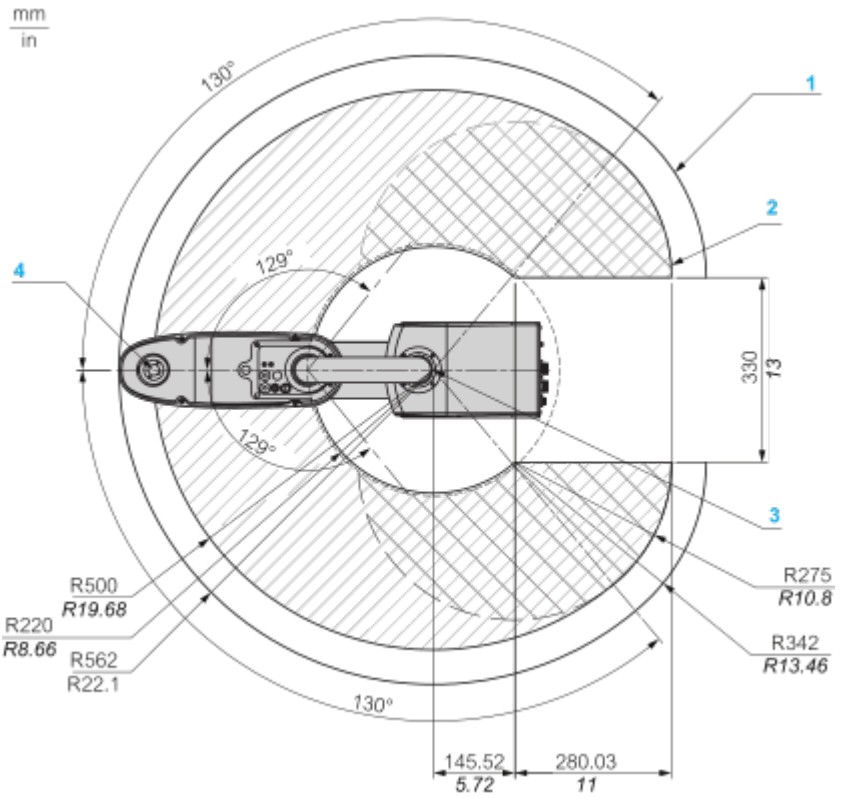
Vertical Workspace



1 : Base mounting surface

Horizontal Workspace

Horizontal workspace of Lexium SCARA with workspace of 500 mm (19.7 in)



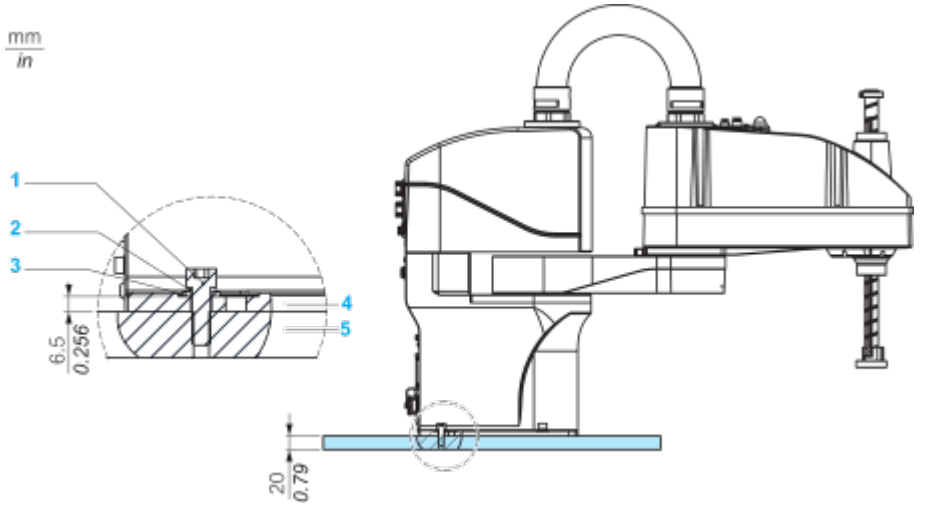
1 : Maximum area**2** : Motion area**3** : Joint 1 rotation center**4** : Joint 3 rotation center

Mounting and Clearance

Mounting the Robot

Base Mounting

Use bolts, elastic washers, and flat washers for base mounting. The dimensions and installation of the bolts and washers are presented in the following figure.

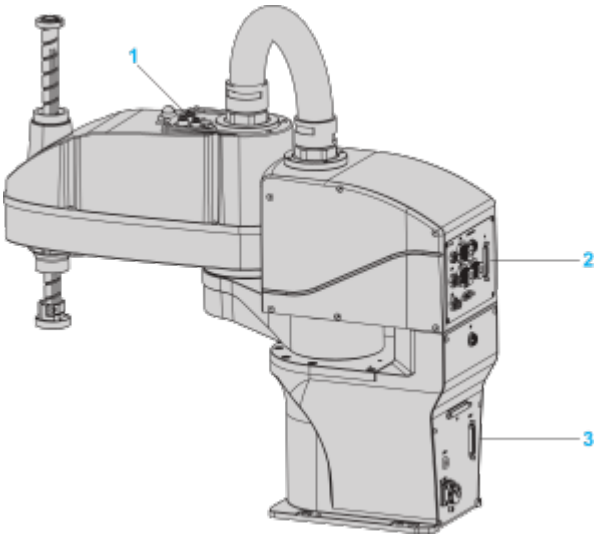


1 : Hexagon socket screw M8x25 (4 pieces)**2** : Spring washer**3** : Flat washer**4** : Robot base**5** : Bottom plate
Position the robot via the two dial-pins and secure the robot base by screwing down four bolts through the mounting holes. Use the hexagon bolts, elastic washers, and flat washers. Torque requirement for base mounting bolt: • 4 securing screws: M8x25 • Torque requirement: 35 Nm (310 lbf-in)

Connections and Schema

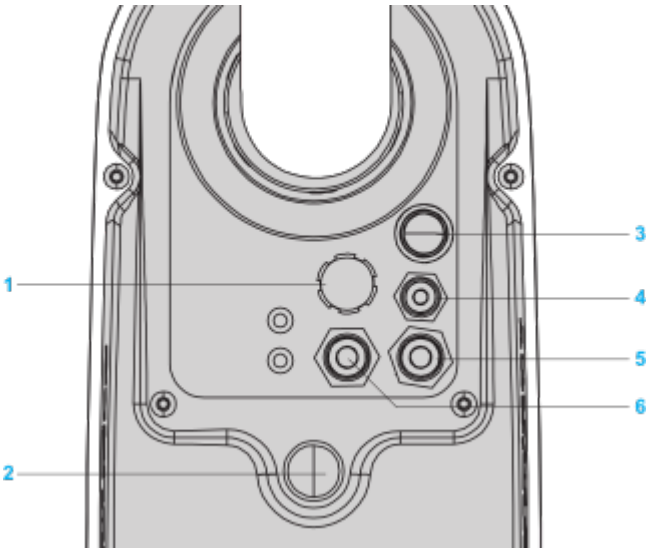
Electrical Connections

Interface Panel Overview



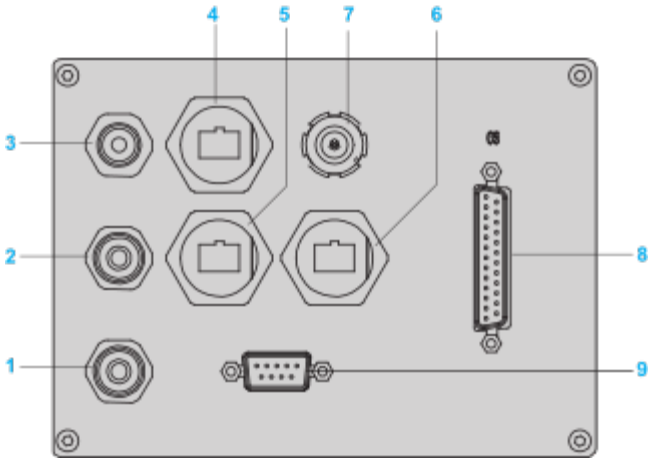
1 : Arm 2 interface panel**2** : Control unit interface panel**3** : Base interface panel

Arm 2 Interface Panel



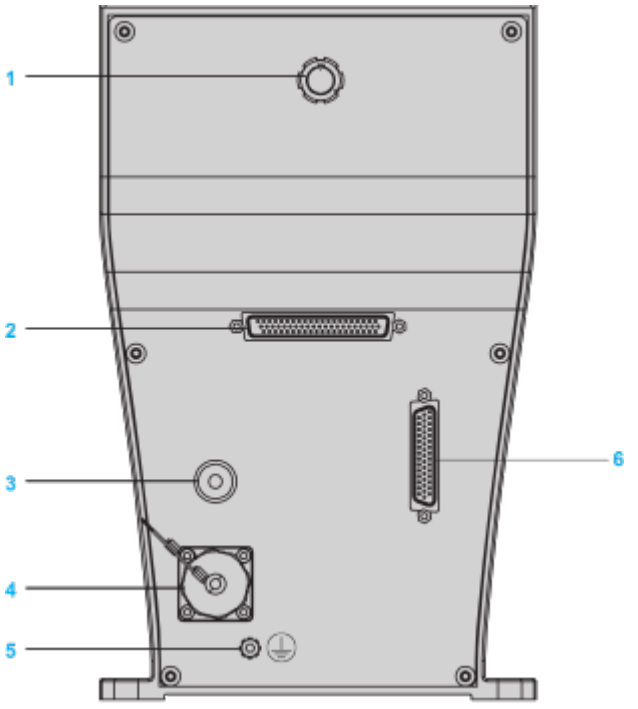
1 CS: Customer Signal interface (Customer Signal) **2**: Robot Status indicator **3 Brake**: Brake release button **4 Air3**: Air hose 3: Ø 4 mm (0.157 in) **5 Air2**: Air hose 2: Ø 6 mm (0.236 in) **6 Air1**: Air hose 1: Ø 6 mm (0.236 in)

Control Unit Interface Panel



1 Air1 : Air hose 1: Ø 6 mm (0.236 in) **2 Air2** : Air hose 2: Ø 6 mm (0.236 in) **3 Air3** : Air hose 3: Ø 4 mm (0.157 in) **4 RTN1** : Sercos port 1 **5 RTN2** : Sercos port 2 **6 LAN** : Reserved **7 Auxiliary Encoder** : Reserved **8 CS** : Customer Signal interface (Customer Signal) **9 RS-232** : Reserved

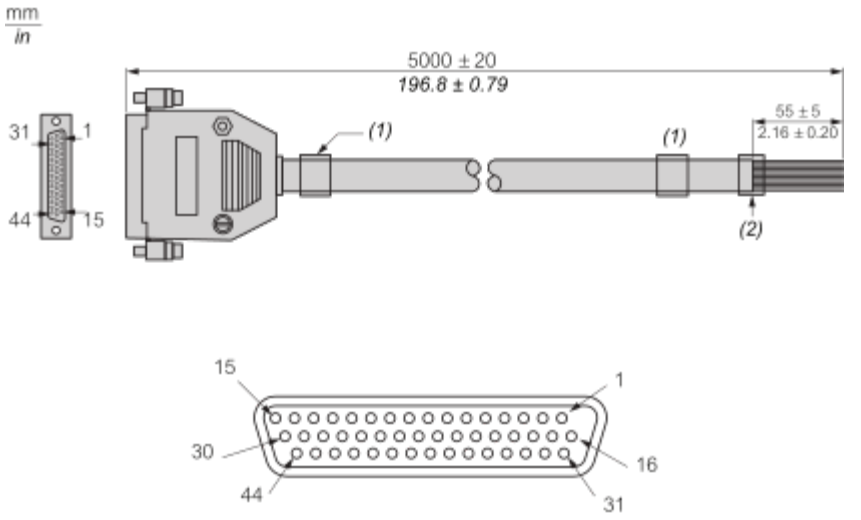
Base Interface Panel



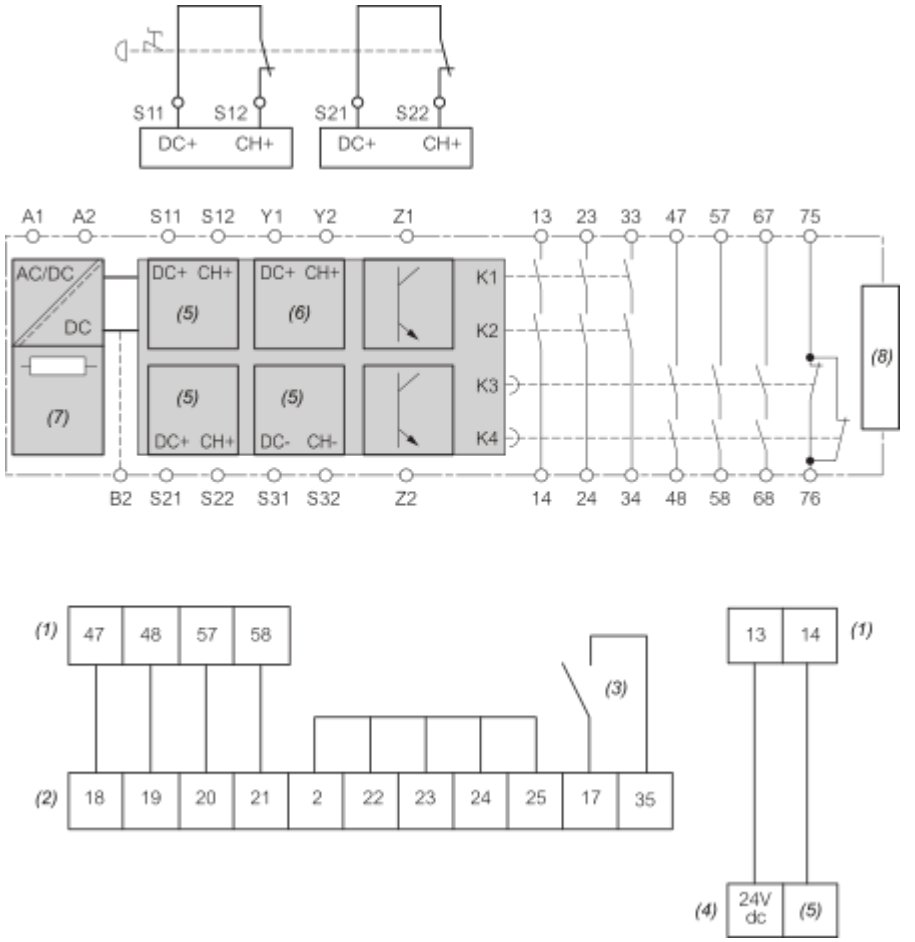
1 MCP: Reserved: use MCP (Manual Control Pendant) jumper plug **2 I/O**: Reserved **3 AC LED**: Main power indicator light **4 POWER**: AC power supply connector **5** ⏚ : Earth ground connection **6 SAFETY**: Emergency stop connector

Emergency Stop Connector (SAFETY)

The emergency stop connector at the robot base is labeled SAFETY. The corresponding pre configured cable is labeled Cable_SAFETY and presented in the figure above. The cable has a D-Sub44 connector and an open end. The minimum bending radius of this cable is 51 mm (2 in).



Wiring example with Safety Module XPSUAT•3A3A•



(1) : Safety Module**(2)** : SCARA —SAFETY**(3)** : Auto ON**(4)** : Pac Drive I/O**(5)** : Pac Drive input**(6)** : Start**(7)** : Power Supply**(8)** : Exit

Pin	Wire color	Function	Description
01	Black	24 V dc	24 V dc output
02	Brown	24 V dc GND	24 V dc grounding potential

03	Red	E-Stop State 1	Emergency stop output 1
04	Orange	E-Stop State 2	Emergency stop output 2
05...12	–	–	Reserved
13,14	–	–	Terminals of the safety module
15	–	–	Reserved
16	Yellow	24 V dc	24 V dc output
17	Green	24 V dc GND	24 V dc grounding potential
18	Blue	E-Stop channel 1A	User emergency stop 1
19	Purple	E-Stop channel 1B	User emergency stop 1
20	Gray	E-Stop channel 2A	User emergency stop 2
21	White	E-Stop channel 2B	User emergency stop 2
22	Pink	Protective Stop channel 1	User protective stop 1
23	White/Black	Protective Stop channel 2	User protective stop 2
24	White/Brown	Functional safety device 1	User functional safety device 1
25	White/Red	Functional safety device 2	User functional safety device 2
26..30	–	–	Reserved
31	White/Orange	24 V dc	24 V dc output
32	White/Yellow	24 V dc GND	24 V dc grounding potential
33, 34	–	–	Reserved
35	White/Purple	Auto_On(1)	Power enable confirmation
36...44	–	–	Reserved
47,48,57,58	–	–	Terminals of the safety module
(1) Before the robot accepts commands from the controller via Sercos, a confirmation is required after the robot has been powered on. For the confirmation pulse, the Auto_On input is used (pin 17 and pin 35, button or...). The Auto_On signal must be considered in the safety assessment.			