

- Non-contact signal detection via inductive proximity sensor (PNP type) with connector plugs
- Lever arms have threaded fixing holes for easy attachment of gripping devices

**Technical Data**

Medium:

Compressed air, filtered and lubricated

Operating Pressure:

4 - 8 bar

Operating Temperature:

+5°C to +70°C

Operation:

Single acting cylinder closes arms, spring return mechanism of cylinder opens arms when air pressure is released

Air Connection:

G<sup>1</sup>/<sub>8</sub>" via adaptor plates

Opening Angle:

M/60310 - 32°

M/60320 - 44°

Maximum Load Capacity:

M/60310 - 4,5 kg

M/60320 - 8 kg

Theoretical Closing Force (at 6 bar supply pressure):

M/60310 - 520N

M/60320 - 1730N

**Materials**

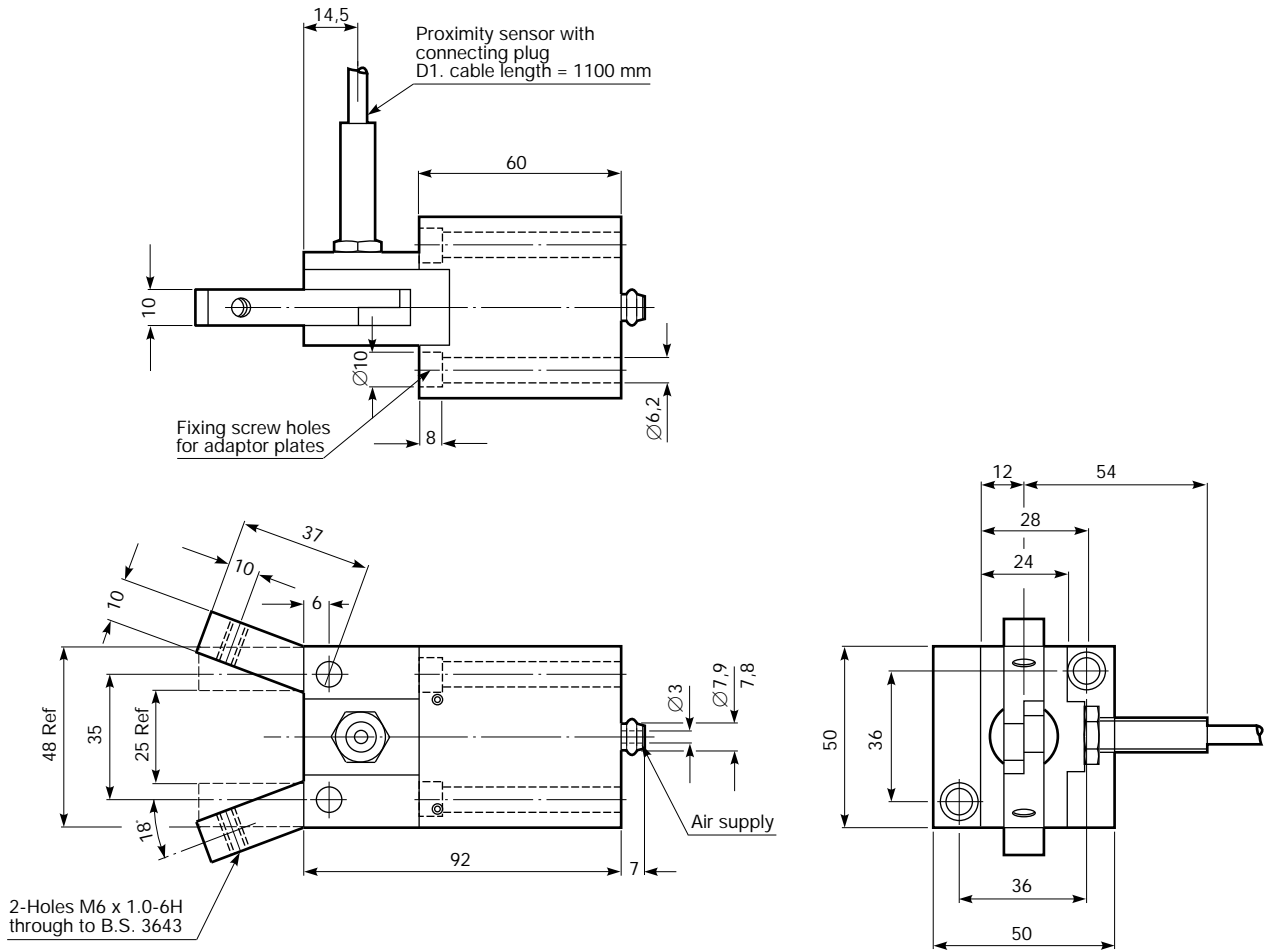
Aluminium body, steel lever arms.

**Ordering Information**

To order a Gripper having an opening angle of 32° quote:  
M/60310.



Basic Dimensions – Gripper size ‘A’ – M/60310



<b>Model</b>	M/60310
<b>Weight (kg)</b>	0,7
<b>Spares kit *</b>	QM/60310/00
<b>Refurbishment kit **</b>	QM/60310/88

\* Comprises all soft seals.

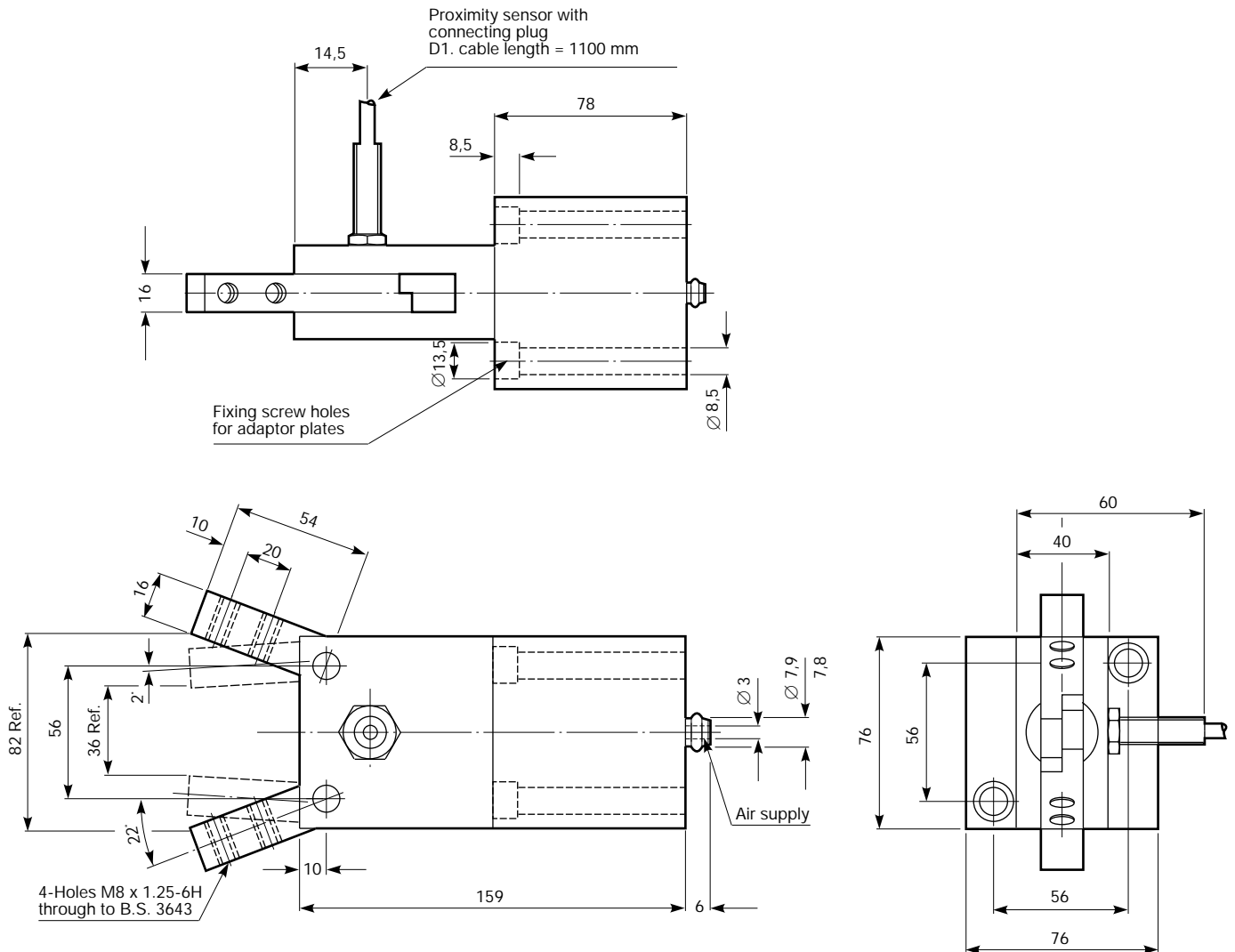
\*\* Comprises all soft seals, wearing components, sensors, dampers, all plugs, sockets and cables.

Sensor Details

Model number: QM/60011  
 Type: PNP  
 Gap required (response distance): 1,5 mm  
 Voltage: 12-24 V. D.C.  
 Maximum load current: 200 mA  
 No load current: 12 mA max.  
 Screw thread connection: M8 x 1 mm  
 Metal housing



**Basic Dimensions – Gripper size ‘B’ – M/60320**



<b>Model</b>	<b>M/60320</b>
<b>Weight (kg)</b>	2,8
<b>Spares kit *</b>	QM/60320/00
<b>Refurbishment kit **</b>	QM/60320/88

\* Comprises all soft seals.

\*\* Comprises all soft seals, wearing components, sensors, dampers, all plugs, sockets and cables.

**Sensor Details**

Model number: QM/60011  
 Type: PNP  
 Gap required (response distance): 1,5 mm  
 Voltage: 12-24 V. D.C.  
 Maximum load current: 200 mA  
 No load current: 12 mA max.  
 Screw thread connection: M8 x 1 mm  
 Metal housing



## Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where *pressures* and *temperatures* can exceed those listed under '**Technical Data**'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

**System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.**

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.