

Sender for air barrier Type SML-40-S

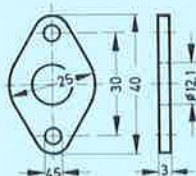


This sender, together with the receivers of Type SD-3 (sheet 2.310) or SFL-100-F (overleaf), forms an air barrier. In addition, the sender can be used in conjunction with separate supply air restrictor (of type Y-PK-3-D) as a back pressure end stop, in place of back pressure end-stop SD-3. Without an upstream restrictor, it can be used as an air barrier for distances up to 50 mm. At distances greater than this, the jet energy of the sender is insufficient to build up the back pressure in the receiver.

Accessories:

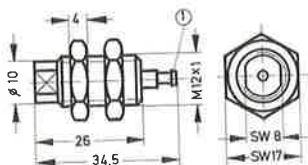
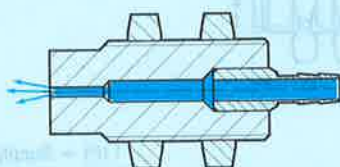
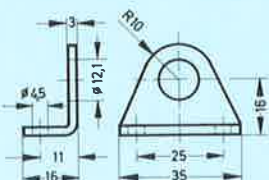
Flange mounting

Order code 5129 FBN-8/10



Foot mounting

Order code 5123 HBN-8/10-1



① Barbed fitting for 3 mm plastic tubing



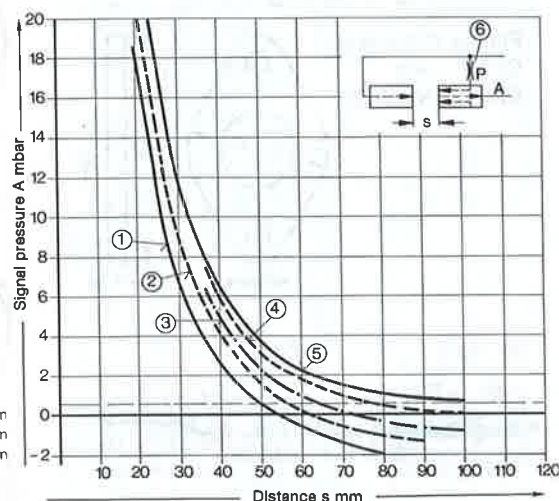
1 (P) = Supply port

The sender generates a fine, stable air jet which produces a signal pressure in the receiver. If the air jet is interrupted by an object, the signal pressure is cancelled. The optimum range for this combination is 20 to 40 mm sensing distance between receiver and sender. The air jets from both nozzles must be matched to each other such that the stagnation point is in front of the receiver orifice. With sensing distances greater than 50 mm, the flow energy of the receiver must be reduced by an upstream restrictor. With smaller sensing distances, the flow energy of the sender must be reduced. The values can be taken from the graph.

Possible combinations



Signal pressure as a function of the nozzle distance (with supply pressure 150 mbar, SML-40-S and SD-3)



Order code	Part No./Type	7442 SML-40-S
Medium		Compressed air, filtered, non-lubricated
Design		Nozzle without moving parts
Mounting		Thread M12 × 1 with mounting nuts
Installation dia.		12.5 mm
Connection		Barbed fitting for 3 mm tubing
Nominal size		2.5 mm
Supply pressure range at P		0.1 to 0.4 bar
Signal pressure range at A		See graph
Air consumption at 0.1 bar		6.3 l/min
Max. nozzle distance		50 mm (without upstream restrictor)
Ambient temperature		–40 to +100° C*
Medium temperature		–10 to +60° C
Materials		Housing: aluminium, brass, steel
Weight		0.015 kg

* depending on tubing used