Inductive proximity switches are contact-free sensors. They detect all conductive metals, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. goods carriers), positioning (e.g. dampers), counting (e.g. nuts /bolts), speed detection (e.g. for cog wheels), on conveyor systems (e.g. hose feedings) or distance measurements (e.g. press-in checking) of metallic objects.
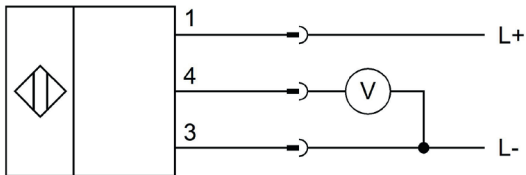
TECHNICAL DATA

Devices for hose mounting	NO
Feeding technology	NO
Hygienic and wet area	NO
Metallic sensor surface	NO
Oil and lubriating coolants	NO
Ring-shaped sensors	NO
Rough ambient conditions	NO
Welding proof sensors	NO
Ambient temperature (min/max)	-25°C / 70°C
Coating housing	Chromium-plated
Construction type housing	Cylinder, screw-thread
Degree of protection (IP)	IP67
High-pressure resistant sensors	NO
Increased ambient temperatures > 80°C	NO
Length of sensor	60mm
Material active area of sensor	PBTP
Material housing	Brass
Mechanical mounting condition for sensor	Quasi-flat
Pitch thread	1mm
Sensors uneffected by atmospheric changes (temperature cycle)	NO
Thread length	45mm
Thread size metric (M..)	8
Absolute repeat accuracy	0.3mm
Correction factor (aluminium)	0.28
Correction factor (brass)	0.4
Correction factor (copper)	0.25
Correction factor (stainless steel)	0.68
Correction factor (steel)	1
Distance measuring sensors	YES
Increased sensing range	NO
Magnetic field resistant	NO

inductive sensors (analog)

TECHNICAL DATA

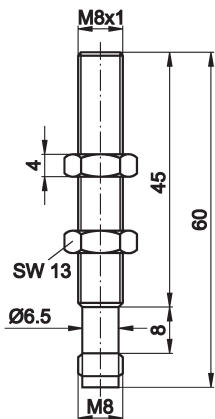|	
Measuring range length (min/max)	0mm / 4mm
No load current	10mA
Number of poles	3
Operating voltage (min/max)	15V / 30V
Reverse polarity protection	YES
Short-circuit-proof	YES
Standby delay	50ms
Supply voltage (min/max)	15V / 30V
Type of analogy output	0 V ... 10 V
Type of electric connection	Connector M8
Voltage type	DC
Resolution	1µm

CONNECTION

Colors: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)
Functions: 1 = L+, 3 = L-, 4 = 0-10V

DIMENSIONAL DRAWING

ADDITIONAL INFORMATION