

- **Very neat, compact, cylindrical units**
- **LED indicator as standard**
- **Suitable for use with our ranges of magnet piston cylinders**
- **Simple, reliable switching with very fast response time**
- **Particularly suited for use where high levels of vibration are present**

### Technical Data

**Operation:**

QM/134 PNP open collector output with LED (yellow)

QM/134/N NPN grounded emitter output with LED (yellow)

**Switching Voltage (Ub):**

10 to 30 V d.c.

**Switching Voltage Output:**

Ub - 2 V

**Inducted Voltage:**

2 V

**Switching Current (see graph overleaf):**

200 mA maximum

**Quiescent Current Consumption:**

10 mA

**Switching Power:**

6 W maximum

**Response Time:**

0,5 ms

**Operating Frequency:**

1 kHz

**Operating Temperature:**

-20°C to +80°C

**Protection Rating:**

IP 66 (DIN 40050)

**Cable Type:**

PVC 3 x 0,34

**Cable Length:**

2 or 5 m

**Materials:**

Plastic body

**Alternative Switches:**

See page N 4.3.055.02



### Ordering Information

To order a solid state (PNP) with 5 m cable length quote: QM/134/5

To order a solid state (NPN) with 5 m cable length quote: QM/134/N/5

Order mounting brackets separately.

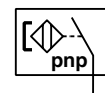
### Accessories

Plug-in connector cables

See page

N 4.3.051.02

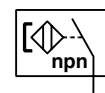
QM/134



+ brown  
- blue

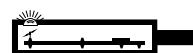
black  
(Output)

QM/134/N



- blue  
+ brown

black  
(Output)







## Alternative Switches

Symbol	Switches (with LED)	Symbol	Switches (with LED)	Description
	+ brown - blue  black (Output)		- blue + brown  black (Output)	QM/134/*/PU  QM/134/N*/PU Very flexible polyurethane cable 3 x 0,34 (5 m length)
	1 → + brown 3 → - blue 4 → black (Output)		1 → - blue 3 → + brown 4 → black (Output)	QM/134/P  QM/134/N/P Plug in connector, connector cable see below
	+ brown - blue  black (Output)			QM/134/E/*  Pulse stretcher PVC cable 3 x 0,34 (5 m length), response time 30 ms.
	+ brown - blue			QM/134/X*  NAMUR conf. to DIN 19234, PVC cable 2 x 0,34 (5 m length, cover blue), switching voltage 8,2 V d.c., switching current active ≥ 2,2 mA / passive ≤ 1mA, response time 0,15 ms, operating frequency 5 kHz, LED yellow, operating temperature -25°C to +75°C, protection rating IP 67 (DIN 40050)

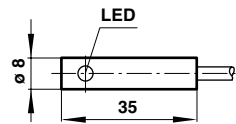
\* Insert cable length

## Weights for Switches and Plug-in Connector Cables

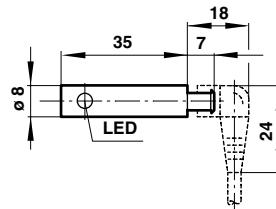
		 Plug-in Connector Cables			 Plug-in Connector Cables		
Model	Weight (kg)	Model	Outer cover	Weight (kg)	Model	Outer cover	Weight (kg)
QM/134/2	0,075	M/P34614/5 (5m)	PVC	0,150	M/P34615/5 (5m)	PVC	0,156
QM/134/P	0,007	M/P34595/5 (5m)	Polyurethane	0,130	M/P34596/5 (5m)	Polyurethane	0,136

## Basic Dimensions

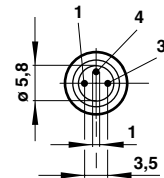
QM/134, QM/134/E, QM/134/X, QM/134/N



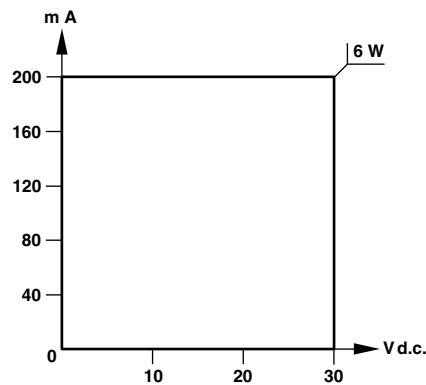
QM/134/P, QM/134/N/P



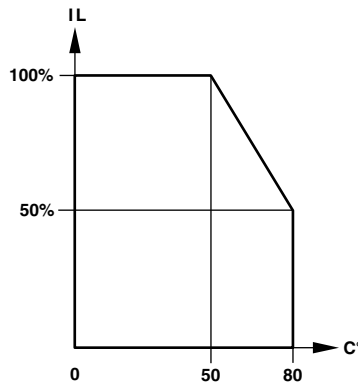
View A



## Switching current and switching voltage



## Temperature curve



## Warning

These products are intended for use in industrial control systems only. Do not use these products where voltage, current and temperatures can exceed those listed under 'Technical Data'.

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

Through misuse, age, or malfunction, components used in control systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in control 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.